

11111111111111111111111100011111111000100000000111100000111111110001111111110011100100000010000
111111110000111111111111111100111001000001000011111111000011111111111111111110011110010000011
00001111111100001111111111111111111111111111111111100111001000010000001111111100001111111111111111111
11111111111111111001111001000010100001111111100000011100100000000001111111100000000001111110000
00000010000011110011110000001001111000010010010000010110100010000001011001001100000101100000000000
111100000100001111111000010000000001101000000000011100100000000001111110000100000000000110
100000010011110010000001000011111110000100000100000110100000000011100100000010000111111100001000
000100000110100000010011110010000010000011111110000100000010000011010000010001111001000001100001111
1110000100000000000111100000000011110010000000001111111000010000001000011110000000001111001000
00010000011111110000100000100000111100000100111001000000100001111111000010000011000001110000010
0011110010000010000111111100001000001000001111000011001111000000111100000010000111111100001000
0010000001111000010000111100000011110000010000000000100010000001001111001000001001111001000000
00001111111000010000000001000100000100011110010000000000111111100001000000100001000100000010011
100100000100001111110000100000110000100010000000110010000001000011001000000100001111100001000001000
100000100011110010000100000011111100001000001000001000100000110011110010000110000011111100001000
001100001000100000110011110010001001000011111110000100000000010011000000100111100100000000001111
1110000100000000010011000001000111100100000000001111111000010000010000100110000001001111001000
00100000111111000010000100001001100000100111100100000010000111100100000010000110010000000001111
000010000010000111111000010000010000111001000000100000100010000011111100001000001000010101000000
00111100100000100001111111000010000010000010101000000001110010000001000011111110000100000110000
10101000000000111001000000100001111110000100000010000101010000001001110010000001000011111110000
10000100000010101000000001111001000000100000111111000010000011000010101000000100111100100000110000
111111100001000000100001010100000010001010100000010000100010000001001111001000000100001111110000
100000100000101010000010001111001000001000001000100000100011110010000100000011111110000100000110000
10101000001000111100100000110000100010000011001111001000100100001111111000010000001000010101000001
00111100100000100001111110000100000110000100110001000111001000000100001000110000010000011111111
00001000001000010001110001110011100100000010000110001000001000001000100000100000100010101000000
00111100100000100001111111000010000010000010101000000001110010000001000011111110000100000110000
101010000000001110010000001000011111110000100000010000101010000001001110010000001000011111110000
100001000000101010000001000111001000001000001000100000100011110010000100000011111110000100000110000
1010100000100011100100000110000100010000011001111001000100100001111111000010000001000010101000001
001111001000000100001000100000010000100010000001001111100100000010000111111100001000001000001010100
00110011100100000100000100000010000010000010000010000010000011110010000100000001111111000010000001010
10000011001111001000001100001000100000110000100010000011001111001001101100001111111000010000010000
01101111000010000010000001101000001100001111001111001000011000001111111000011100001000000100000110
100001000001110000011010000011001111001000011000001111111000010000010000011011110000100000100000
10001000001100001111001110010000111000011111100001110000100000010000011010000010000011100000100001000
1000001100111100100010010000111111100001000011000000111111000010000100000010011000001000001110011
110010000100000011111110000111000010000110000001111000010000011100001001100000100011110010000001
000011111100000100000010000010100000010000100000001100111100100000010000011011110000100000100000
10001000001100001111001110010000110000011111110000100000010000011010000010000010101000001100111100
100000010000011011110000100000100000101010000011000011110011110010001001000011111110000100000100000
101010000110000001111000001001111001111000010000010000010101000011000001111000001111000000100111100
1011111000001111111000000001011111100000000110000001011000000100001111001111001111000000011000000
1101100000010000111100001010111000010000001000010011100000010000011110000111110000000010111110000
1000000000011100111100100000000001111111000000010111110000100000010000111001111001000000010000
111111100000000101111100001000010000001111001111001000001000001111111000000001011111000010001001
00001110011110010000011000011111110000000010111110000100100000000111001111001000010000001111111
00000001011111000010011100100001110011110010000101000011111110000000101111100001010010000001111
001111001000011000001111111000000010111110000101100010000111100111100100001111100000000000
11101110000000011000000110110000001000011110011110011110000000110000001101100000010000111100001010
11110000100000010000100110000011000011110011111000000011101111000010000000000111001111001000
000000011111110000000111011110000100000100001110011110010000001000011111110000000111011110000
1000100000001111001111001000001000001111110000000110111000001001101100000111001111001000000110000
11111110000000100001111000000011000000110110000001000001010000110000001101100000100000111100111100
111100000000110000001101100000010000111100000101011100001000001000010010000110000001101100000100000
11110000111111100000001000011110000100000010000011100000001000011110011110010000001000011111110000
0010000111100001000100000001011000001100000111100111100100000100000101110000000001111110000001000
10010000010110000010000011110011110010000110000111111000000100001111000010010000000010110000100
00001111001111001000001000001111111000000001001111000000001100000011011000000100000101000011000000
11011000001000000100000100000110110000011000001010000100000110000001110000010000011110011110010000
00001100000011011000000100000110111100000001100000011011000001000001001111000010000010000010101000
011000001111000011110000011011110000000110000001101100000110000100111110000100000100000101010001100
000011110000111100001111000010001111000001000001010100001100000111100001010000011000000110110000
01000001111110000000010011110000100000010000010110000000000010110000000000010110000000000111100000000001111
00111100100000010000111111100000000010011110000100000010000001000000010000011111100000000001011000
0001000011110011110010000010000010101000011000001111111000000001001111000010000000000010110000001
000001011000000000001011000000000001111001111001000000100001001111100001000001000001010100001100000
11110000111111100000000100111100001000000000101100000000000101100000010000010110000000000111111
001111001000000100001001111100001000001000001010100011000000111100001111111000000000100111100001000
0000000010110100000000010110000000000010110000000000111100111100100000010000100110000010000011111
111100000000010011110000100000010110111100000000011100111100100000010000100110000010000011111
111100000101101111100000101101111100000101100000000001110011110110000010000010101000011000001111
11110000000001001111000010000011000001011000000000001011000000000001011000000000001111001111010001
0001000011111110000000010011110000100000110000101100001000001011000000000101100000000001110000000001111
0011110100010001000011111110000000010011110000100000011000001011000010010000010110000100000001011000
000000011110011110100010001000011111110000000010011110000100000010000010110011010000001011010000
00000101100000000000111100111011000001000001010111000010000001000010011000000100000111100001111111
0000000010011110000100000100000101101011100000010110110000010110000000000111000001011000000001111
00001010111000010000010000010000100110000000001111111000000001001111000010000001000001010101010
01110000010110100011000001011000000000011110011110010000010000100110000010000010100001010111000

0100000010000100110000010000011110000111100001001100000100000111111100000000001111100000000010000
01111001111000000010011110000101010000000010110010010000001011001101100000101100000000001111000001
10000111111110000100000100001001000010011000011111110000100001000001001000010011000011111110000100
001100001001000010011000011111110000100000010001001000010100000011111110000100000110001001000001010
0000011111111000010000101000010100000111111100001000001100001010100000100000011010000100000
0101010000010000111000010100001010000010000011111110000100001010000010100000100000011010000100000
000001010100000100011110010001101000010101000001000001111111000010000110000010101000001000000110100
010000000101010000010001111001000101000001010100000100000111111100001000011100001010100000100000011
01001100000001010100000100011110010011001000010101000001000001111111000011100001000001100000101100
00100000001011000010100001110001001000010101000011111110000111000010000101000001011000100000010
11000110100001111000100100001010100001111111000011110000100001100000010110001000000010110001010000
0111100010010000101010000111111100001110000100001100000101100110000000010110011001000011110001001
0000101010000111111100000001010111100001000011000001011000010000000101100001010000010100010111000
011011000001000001000010110000101100000100000101000101110000101100000101100000111000001000001100
00001111111100000001011011110000100001010000101100011000000010110001101000001010001011100001101100
000010000010100010111000011011000001000000101000101110000110110000011000011110001001000011000000011
1111100000001011011110000100001100000001011000100000001011000101000000101000101110000110110000001000
001000000101100001000011100000101100110000000101100110010000010100010111000011011000000100000101000
101110000110110000010000001010001011100001101100000110000111100010010000110000000111111100001111000
000010110111100001000001100000101100001000000101100001000000101000010111000011011000000100000101000
101110000110110000010000001010001011100001101100000110000111100010010000110000000111111100001111000
0001110000010001000010011000001000001111111000000011001111100000001011100001101100000010000011
10011110010000011000010011000010100001111111000000011010111100000001011100001101100000010000111001
11001000010000000100110000011111110000000110011110000000101110000110110000011000001110011110
010000100000010011000010100001111111000000011010111100000001011100001101100000110000111100111100100
00011000010011000010100001111000011111110000111000000010110111100001000011000000101100010000000010
11000101000000101000101100001101100000101000011011000011011000001000000101000101110000110110000
000110000111000011111100000001011011110000100001100111100001000011000000010110000101100001101100
0001100000111000011111000000010111000000010110000010001011100001101100000100000010100001011000001
000010111000011011000000100000110000101110000110110000011001111000001000100001001100000100000111111
1000000011001111100000001011100001101100000010000111100111100100001100000100110000101000001111111000
0000110101110000000101100001101100000010000111100111100100010000000100110001010000011111110000000
110011110000000101100001101100000111100001110000001000001001100000010011000100000011111100000001101
0111100000001011100001101100000110000111001110010000100000100110001010000011110000111111000000
11001111100001000000000001111001111001000000000011111110000000110011111000000010001000010011000011
0000011110011110010000001000010011000001000001111111000000010001111100000001000100000001000100000
01111001111001000000100001001100000110011111000000010001000011100111100000001000100000100000010000
1100111100100000100001001100000100000111100111100100000010001000011110011110010000000000
0111111100000001100111110000100001110000100000010001000010011000011100111100000001111000000
10000100110000010000011111110000001100111110000100000110000100000010001000010011000001000001111001
1110000000111000000100001111111000000011001111000000100011100001000001000100001001100000100000111
1001111000000011100000010000100110000010000011111110000001001100001000001000000100000100000010001000
01111001111001000000000001111111000000011010111100001000000000011110011100100000010000111111000
0000110101111000000100010000100110000011000011110011110010000001000010011000001000001111111000000
1101011110000001000100001001100000100000111001111001000000000011111100000000000111110000000100110000
0000100010000100110000011000011110011110000000111000000100001001100000100000111111100000000011010111
10000100000110000100000010001000010011000001000001110011110010000000000111111000000010101111000
010000101000010000010001000010011000001100111100100000010001001100000100010011000001000001111111000000
1101011110000100000100000100000010001000011100111100100000010001111110000000100011111100000001011
1000011011000000100001111000010101000001000001100011010111000000010111000001101100000100001111000
01010100000100011110010000001000011111100000000001111000000000100000111100111000000001001111000
0101110100000101100110000000010110000100000001011000000000011110000001100001111111000011110000111
1111100001111000100100001101100001111110000111000000000000001111000100100001101100001111111000
0111100001111111100001111001111001111000000011011000000100000101000111100000001101100000001000
001010001110000001011000000100001010000111000000110110000001000001010001110000001101100000010000010
1000111000000110110000001000010100001100000011011000000100001010001110000011011000000100000111000
011111110000111100000000000001111001111001110000000110000001101100000100000101000111000000110
110000010000001010001110000001101100000100000101000111000000110110000010000001010001110000001101100
0001000000101000111000000101100000100000110000111000001101100000100000010100011100000011011000001
0000011110000111111100000001100000011011000001000001001000001110011110000001110000001000001110000
0111100001111111000000111000000110110000010000100100001110011110000001110100000110000111100000111
100001111111100000000000111110000000110000000110110000000001111001110100000100111000000110000000000
00101100000000000101100001000000010110000000001111000001100001111111000000000111100000001110
000001011000000100001110011101000000100111100001000001100000101100110000001011001010000000101100
101100000111000111111110000000000100001110000111111000000000011111000000011100000011011000001
00000111100111100000000001111100000011100000011011000001000001111000011111110000001000001111000000
1110000001101100000010000111001111010000010011100001011011100000101100111000000010110110000010
11000010000001110010000010000100000001111110000000100000010000011100000001000000110110000001000
0111100111101100000010000100111100000000100111100001011101000001011001110000000101100111100000010
110010010000011110001111111100000000010000111100001111000000100000111111100000010000001111000000
01101100000100000111001111000000100111000000000000010110000001011010110000001011011000000101100000
0000111100100000000111110000000110000001101100000100000111100000111111100000010000011110000000
111000000101100000010001110011110100000100111100001011011100000101100111000000010110110000010
1100001000000111001000001000010000000110000001111110000000100000011110000000110110000000110110000001000
01111001111011000000100001001111000000001001111000010111101000001011001110000000101100111100000010
11001001000001111000111111110000000000100001111000011110000011111110000001000001111000000011100000
01101100000100000111001111000000100111100000010011100000010110101100000010110110000000101100000010
000011110010000100000111001111000000010111000001011011000001011011000001011011000000101100000010
0000111100100001000010010000001100000111111000000100000111000000011100000001101100000100000111001
1110110000001000010011110000000010011110000101110100000101101000010000010110110010000001011001001
00000111100001111111000000000010000111100001111000001111111000000100010111100000001110000001101100
000010000111100111100000010011100000000000001011001010000000101101010000000101101000000010110000000111
100100011000011111110000001000101111000000011100000011000000111001111010000001011000000010011100000101
1110100000101100111000000010110011110000001011001001000001110001111111000000100010000011110000111

111110000001000101111000000111000001101100000100000111100111100000010011110000100000000000101100
101000000010110101010000010110000000000111100100011000011111111000000100010111100000011000000110
11000001000001110011110100000100111100001011101000001011010000100000101100110000000010110010010000
011110001111111100000010001000001111000011111111000000100100001111000010001000001001000000010000111
11111000000100101111100000010010000001111001110000100010111000000011100000011011000000100001111000
01000001000001111000000011100000011011000000011000000111000011111110000001001000001100000011
1001111000010001011110000000110000001101100000100000111000010000010000011100000001110000001101100
0001000001111000011111110000001000001110000000101110000111100111100100000100000100000100010000100
000100000111100000011100000011110000111111100000001100111100000001110000001110011110010000010000
010000001000100001001001011111000000011100000001111000011111110000000111011111000000100010000010
10000001000011110011110000100101111100000001110100001110000100000011001111100000000110011110000000
1110000001110000100000100010000001110010000011110000000101110000111100001000000000100001111000011
1111100000001110111100000010001000000101000000010000111001111000010010111110000000111100000111000
0100000010011110000000110011110000000110011100000000110000000011000010000000111000000011100000001011
10000111100001000000000010000111100001111111000000111000000110110000001000100100001110011110000000
1110100000110000111100000111100001111111000000110000001101100000100001001000011100111100000001110
100000110000111100000111000011111110000001001011110000001001000000111001111000001110100001001000
1110000001111111000000101111100000001001011110000000100100111100000011100000001110000000111000000
0001000001111000000111000000111100000010010111100000010010000001110011110000011111111
1000000100010000011110000100100011111110000000000100001111000011111110000001001011110000001001
00000011110011110100000100111100001001000100000101101101100000101101010100000010110000100000111100
000010000100100000110000111111100000000001111000000000011100000000111100111000000001110000110000
010000010110010000000001011010001000000101100000010000111100000011000011111110000001001100001001000
011100111100000001101000001100001111000011111110000001000001111000000100000111000000010011001111
001000000000001111111000000000011111000000100110000011100111101000010011110000010011110000010011
0000000000101100111010000101100000000111000000001110000000001111000000000011110000000000010110
0000000000101100111100000010111000000011000000101100000110000010010010011000000100001110000001001100000
1100111101000001001111000010010111000001011011001000001011000000000010110010110000011110001111111
110000000000010000111100001111111000000100111111000011111110000111001111001111000000011100000011
0110000001000001001001100000010100011100000011011000000100000101001001100000010100011100000010110
00001000001010010011000000101000111000000101100000010110000001000001001100000010100011000000110110000
0100000101001001100000010100011100000011011000000100000101001001100000011100001111100000010011111100
0000000000001110011110011110000001100000011010000010000001010000010000001010010011000000010100011000000110
0001000000000001000000000111000000101000011011000000101100000010000001010010011000000101000111000000
100000010100100110000001010001110000001101100000100000010100100110000001010001100000010110000001000
0001010010011000000101000111000000110110000001000000101001001100000010100011100000010110000001000001
010010011000001111000011111110000000000111100000010011111100001111111000011111000011110011110011
110000000001001110000100000000001011000000000010110000000000101100000000001011000000000011100000010100000
0011110000111100001111111000000000011110000001001111111000000000000011110000111100111100000000
011111000000100111111100001111111000001110000111111000010000000000101000100001000000111111
1100001000000001010001000011000011111110000100000100100010000100001111111000010000001001010
00100000111000011111110000100001000010011000000000001111111000010000110010110000000000111111
11000010000100001010011000000100001111111000010000110010100110000001000011111110000010000111100
0000100111000011110010100100000100111100001011011100000101100100000000010110001111000001011000010000
00111100001000010000100100000110000111111000000100001111000000100001111000001110011000000000111100
0010110111000001011010001110000100000010110000100000011110010000100001001000000000100000111111
1100001000001000001000001000011100000001110000001101100000010000111001010010010000011110000001001
110000111100001111111000000100000111100000011011000000100001111000010011000001000010100000
10000111100000100111000011100001111111000000100100111100000001110011110000000111010000110000111000011
1000001110000001010010100000111001111000010010010011100000001110000110000001111100000010010011
110000000111001111000000111010000011000011110000010100101010000011110011110100000100111100
0010010001000001011011011100000101101010100000010110000100000011110010001100001001000000110000111111
11000000100100111100000011100111100000011100111100000010000111100000011100000100110000111100111
010000010011110000100100010000010110111000001011001000100000101100001000000111001000110000100100
000011000011111111000000100100111100000011100111100000011101000001000011110000011100000101001011
000000111100111101000001001111000010001101000001011001101000000101100000000000101100001000000111100
1000110000100100000011000011111110000001001001110000000111001111000000111001000001100001111000011
110000010100010110000011100111101000001001110000100001110000010000111001100100000110000000000010110
000100000111100100011000010010000011000011111110000000001111000000000100000111100111100000001
0011110000100000010000010010000001000011111110000000001111000000000100000111100111100000001
001111000001000000100000101101001000000010110000001000011110000001000011110000001111111000000
1010011110000001110011110000001011000001111000001001010100001111001111010000010011110000100001
0100000101100101000000101100000000001011000000010000111100100011000000100000011000001111111000000
10010011110000001110011110000001011100000101001011000000111001111010000010011110000100101
1100000101100011000000010110000000000010110000001000011110010001100001001000000110000111111000000
100100111100000011100111100000011100000101001011010000111001111010000010011110000000100111000010000
100000010110110100000101100000000000101100000010000111001000110000010010000001100000111111000000
10000001011011010000010000100100000110000111111100000000011110000000001000001110011110000001
10000001011011010000010000100100000110000111110000000000111100000000010000011110011110000001
100000010110110100000100001001000001100001111100000000001111000000000100000111100111100000001
1001001111000000111001111000000101100000111000001001011010000111001111010000010011110000100000
1000000101101101000001011000000000001011000001000001111001000110000010010000001100000111111000000
100100111100000010111000011110011110000100100111000000011100111100000010111000000111100000000
100100111100000010111000011110011110000100100111000000011100111100000010111000001111100000000

11000011110000111111110000001011110001001000011100111000000101110000011110000111111100000010111111
11000000100010000001010000000100001110011110000100101111100000010111100001111000010000011001111100
00000011001111000000111000000111000010000010001000000110010000011110000001011100001111000010000
0000010000111100001111111100000010000011110000001100000000111100101000110010100001000010000100100000
11000011111110000001000001110000001100000000111001010000000010011100001011000100000101100000000
0001011000000000011100000100000111000000100000001001000000010000001110000100100000010010000010100000
010001001000101111000011111110000001000001110000001100100001101100000010000111001010011001010000
1000010000100100000011000011111111000000100000111000000110001000011011000000100001110010100000001
0011110000101100010000010110000000000010110000000000010110000010000011100100001000010010000001100
001111111100000011000010000110110000001001001000010001000011111110000001100010000110110000010000100
10001100010000111111110000001000001110000001100010000110110000010000011100111100001000001111000000
11000100001101100000010000111100000011000100001101100000010000111100111100001000001101100000
10000011100000100100000011100000011000100001101100000010000111100111000100000100110000000100
0100100011001000000111111100000010000011100000011000100001101100000100001110000100100000111100
000011000100001101100000010000111001111001000001100001001100000100001001000011001000001111111000000
1000001111000000110001000011011000001000001110000100100100000111000000110001000011011000000100001
1100111100100001000000100110000011000100100011001000001111111000000000011110000000000100000111100
11100000000100111000000000011111110000100000010000111111100001000001000001111111000010000011000011111
1100001000010000001111111000010000010100001111111000010000110000011111110000100001110000111111100
001000100000001111111000010001001000001111111000010001010000011111110000100010100001111111000010
00110000001111111000010010001000011111110000100100100000111111100001001001100001111111000010010
000000111111100001001000100001111111000010010010000011111110000100100110000111111100001001010000
00111111100001001010100001111111000010010110000011111110000100101100001111111000010011000000011
11111000010011001000001111111000010011001000011111110000100110010000111111100001001100000011111
11000010011010000011111110000100110110000111111100001011100000001111111000010110010000111111100
00101110000011111110000101101100000111111100001011100000011111100001011101000011111110000010
11110000011111110000101001100000111111100001010011100001111111000010101000000011111110000101010
01000011111110000101010100000111111100001010101000011111110000101011000000111111100001010110100
00111111100001010110000011111100000111111000001111110000011111000000111100000011111000001011001000
111111000010110010000011111110000101100110000111111100001011010000001111111000010110101000011111
11000010110110000011111110000101101100001111111000010111000000011111110000101110010000111111100
0010111000001111111000010110110000011111100001011100000011111100000111111000010111010000111111000010
111100000111111100001011110000011111100000000011110000000001000001110011100000000100111100000011100
001000000100000101101101010000010110011000000001011000001000011100000011000011111100001000000100
11110011111100001111111000010000010001111001111111111111000011111110000111111000011111100111111
11111111111110000111111000010000100001110011000010
00010100111100111011111111111111111111100001111111000011111100001000000000111100000001111100000111100
00111111100111001000000100001111111000011111111111111001110010000010000011111110000111111111
11111111111100111001000000110000111111100001111111111111111111111111111111111111100111001000010000001
111111100001111111111111111111111111111111111110011001000010100001111111000000111100100000000
00011111111000000000001111000000000100000111001110000000100111100001000001011011100000000
101100111000000101100000010000111000000110000111111000010000000000111000000000011100100000000
000111111100001000000000001101000000100111001000000100001111111000010000001000001101000000000111
10010000001000011111110000100000010000011010000001001111001000001000001111111000010000001000001101
000001000111001000001100001111110000100000000001110000000011100100000000001111111000010000
00100000111100000000111001000000100001111110000100000100000011100000010011110010000001000011111
11100001000001100000111000001000111001000000100001111111000010000010000001110000011001111000000
1111000000100001111111000010000010000001110000100001110000000010001000010000111100100000000001111110
00010000001000010011100100000000011111100001000000000010001000000100011100100000000001111110
00010000001000010000010001110010000010000011111110000100000110000100000100001000111001000000110
00011111110000100000100001000100000100011100100001000000111111100001000001000010001000001100111
100100001100000111111100001000001100001000100000110011100100010010000111111100001000000000010011
00000010011100100000000011111100001000000000010011000001000111001000000000011111100001000010000
01000001001100000010011100100000100000111111000010000100000010011000001000111001000001000011111
11100001000011000001001100000100011100100000110000111111100001000011000001001100000110011110010000
01000001111111000010000010000010011000010000111100100000010000100110000010000011111110000100000100
000100110000110001110010000001000010011000001100001111110000100000100000100011100100000000001111110
0001000000100001000010000010001110010000010000011100001000001100001000000100011000100000000001110
000111111100001000001000001000100000100011100100001000000111111100001000001000010001000001100111
1001000011000001111111000010000011000010001000000110011100100010010000111111100001000000000010011
00000010011100100000000011111100001000000000010011000001000111001000000000011111100001000010000
01000001001100000010011100100000100000111111000010000100000010011000001000111001000001000011111
11100001000011000001001100000100011100100000110000111111100001000011000001001100000110011110010000
01000001111111000010000010000010011000010000111100100000010000100110000010000011111110000100000100
000100110000110001110010000001000010011000001100001111110000100000100001001100001001110010000
001000010011000001100000111000010000011000010011000011000111001000000100001001100000010000011111
11100001000000100001010100000000111001000000100001111111000010000010000101010000000011110010000
001000011111110000100000110000101010000000011100100000010000111111100001000000100001010100000010
011100100000010000111111100001000001000010101000001001111001000001000001000100000100011110010000
100000011111110000100000110000101010000010001110010000001100000100010000001100111100100010000011111
11100001000000100001010100001100111100100000100001000010000001000010000000001000100000000100001
1111110000100000100000101010000011001110010000010000010001000000000010000000000100001000001000011110
00011111110000100000110000101010000011001110010000011000010001000001100001000100000110011110010011
01100001111111000010000001000001101111000010000001000000011010000001100000111001111001000011111
11100001111000010000001000001101000001000001110000001001000000100111001000001000000100000110000
001000000110111000010000010000010001000001100001110011100100000110000011111100001000000010
000011010000010000011100001000100000110011100100010010000111111100001000011000000111111000010000
1000000010011000001000000111001111001000001000000111111100001000011000000111100001000000011110
0001001100000100011100100000010000111111000010000001000001000000100000100011001110010000
0010000001101110000100000100000100010000011000011110011100100000111000001111111000010000001001
00000100000101010000011001111001000000100000110111000010000010000010101000001100001110010001
00100000111111100001000001000001010100000110000000111000000010011100111100001000001000001100
0001110000001110000010000001000001010100000111110000000010000000010000010011000000010000000001
11001110011100000001110000001000001110000001000001000000100000010000010000000000100110000000001
1100111001110000000011000000010000001100000101011100000000100000101011100001000001000000011110
000111111000000001011111000010000000001110011110010000000000111111000000001011110000000011110
0001111111000000001011111000010000000001110011110010000000000111111000000001011110000000011110
0001111111000000001011111000010000000001110011110010000000000111110000000001011110000000011110
0001111111000000001011111000010000000001110011110010000000000111110000000001011110000000011110

001000011110011100100000100001111111000000010111110000100001000000111001110010000010000011111
11000000001011111000010001001000011100111100100000100001111111000000010111110000100100000001
11001110010000100000011111100000001011111000010010001000011110011100100001010000111111100000
0001011111000010100100000011100111001000011000001111111000000010111110000101100010000111100111
10010000111000011111110000000111011110000000110000011010000001000011100111100111000000011000
0001011000000100001110000101011100001000001000010000110000111100001111000000011011110
0001000000000011100111100100000000011111110000000110111100001000001000011100111100100000010
0001111111000000011101111000010001000000011100111100100000100001111111000000001101111000010011
0110000111100111100100000110000111111100000001000011100000001100000011011000000100000101000011000
00011011000001000001110011110011110000000110000011011000001000011110000101011110000100000100001
001000011000000110110000010000011110000111111100000001000011110000100000010000010110000001000011110
011110010000001000011111110000000100001111000010001000000001011000001100001111001111001000001000001
111111100000001000011110000100010010000010110000010000011110011110010000011000011111110000000100001
11100001001000000000101100001000001110011110010000010000011110000000001001111000000000110000001
10110000001000000101000011000000110110000010000001010000110000001101100000110000010100001100000011011
00001000000111100111100111100000000110000000110110000001000001101111000000001100000011011000001000001
001111100001000001000001010100001100000111000011110000011011110000000011000000110110000011000010011
1110000100000010000001010000011100000111000001110000011000001000011110000100000100000101000011000001
1110000101000001100000011011000010000001111111000000001001111000010000001000001011000000000001011
000000000000101100000000000111100111100100000010000111111100000000010011110000100000010000010110000
0000000010110000000000001011000000100001111001111001000001000001000001010100001100000111111000000001001
11100001000000000000001110000001000001011000000000101100000000011110011110010000001000010000111110
00010000010000010101000011000001111000011111100000000100111100001000000000001011000000000001011
0000001000000101100000000001111001111001000000100001001111000010000010000010101000110000000111100001
111111000000000100111100001000000000001011000000000101100000000000101100000000001111001111001
000001000001000001100000111111000000000111110000000000010011110000000000101101000000000010000000000
1011000000000001110011110010000001000001101110000100000010000100110000010000011110000111111100000
0000100111100001011111000000101110000000000010110000000000001011000000000001110011110010111100001
1111110000000001001111000001011111000001011011110000010110111100000101100000000001111001111011
000001000001010100001100000111111000000001111100000000010011100001000001100000101100000000000
10110000000000011110011110100010001000011111110000000010011110000100000110000010110001001000001011
0000000000001011000000000011110011110100010001000011111110000000010011110000100000110000010110001
00100000101100001000000101100000000000111001111010001000100001111110000000000100111000000000010
00001011001101000000101101000000000111001110000000000011100111011000000100000101011100001000000100001
00110000010000011110000111111100000000100111000010000010000010110101110000001011010111000001011
0000000000011110011110110000011000010101111000010000001000010011000001000001111000011111100000000
100111100001000000100000101101001111000001011000011000001011000000000011110011110011110000100000010
000110100001010000010101111000010000001000010011000001000000111000011110000000000011111110
000000000011111000000000100000111100111100000001001111000010000010000001011001011100000101100011000
000010110000001000011110000001100000111111100001000001000010010000100110000111111100001000010000010
01000010011000011111110000100001100000100100001001100000111111000010000001000010010000010100000011111
110000100000110001001000010100000011111110000100001010001001000010100000111111000000001111110000100001
01010000010000001101000010000001010100000100011110010001010000010101000001000001111111000010000
0001010100000100000011010001100000010101000001000111100100011010000010101000001000001111111000010000
110000010101000001000000110100010000000101010000010001111001000101000001010100000100000111111100001
000011100001010100000100000011010011000000010101000001000111100100110010000010100000101000001111110
0001111000010000011000000110000010110000010000010100001111000100100001010000011111100000111100001
000010100000101100011000000101100011010000111100010010000101010000111111100000111100001000001000000
1011000100000001011000010000011110001001000001010100001111111000001111000001000001011001100010000
00001010000011110001001000011000000011111110000000101101111000001000010100000101100001000000010110001
101000001010000101110000011011000000100000101100000101100000101100000100000001010000101100000011011000001101100000110
0001111000010000001111110000000101101110000100001100000000101100110000000010110000000000101100001000000
101000101110000110110000001000001010001011000010110000010000001010001011100000110110000011011000001100000011110
001001000011000000011111110000000101101110000100001110000001011001100000000101100110010000010100010
111000011011000000100000010100010111000001011000001000000101000101110000011011000000011000011110000100100
0011000000011111110000001011011100001000001100000101100001000000000101100001000000010100001010000
11100001101100000001000001010001011000001010000010000001010001011100000101100000110000011000001111000001111
11100000001011100001101100000100011110000010001000010011000001000001111111000000010111000011011000
000100000011000001011100000110011110000010001000010011000001000001111111000000011001111100000
000101110000110110000001000011110011110010000011000010001000010100001111111000000011010111100000001
011100000110110000000100001111001110010000100000010011000010100000111111100000001100111110000000010111
000011011000001100001111001111001000010000001001100001010000111111100000001101011110000000101110000
11011000001100000111100111100100000110000010000010100001111100000111111000000111000000001011011110000
10000110000000101100010000000101100010100000010100011110000110110000001000010110000010110000011011000
00100000001010001011000001100000011000001111000000010111000000010111000000110111000000100000010001
00001001100000100000111111100000001011100000001011100000110110000001000001111000001101110010000100
0000100110001010000011111110000000110101111000000001011000001101100000010000111100111100100010000000
1001100001010000011111110000000110011110000000101100000101100000010110000001110011110010000100000001
10001010000011111110000000110101111000000010110000110110000011000011110011110010000110000010011000
1010000001111000001111111000000011001111000010000000000111001111001000000000011111110000000011001
11100000001000100001001100000111001111001110000001000000011100111100100000000000111111000000011001
00000000100010000100110000110000011100111100100000010000001111100000010000000111111000000011001111
000000001000010001001100000111001111001000000100000111001100000001000100110000001000010000100001000
00010001000010011000011000001110011110010000010000100110000010000011111110000000110011110000001
00010001000010011000011000001110011110010000010000100110000010000011111110000000110011110000001
00010000011110011110010000000000111111100000001100111100000001100111100000001000100000100000010
0000111100111100000001110000000100000010000001000000111111000000011001111000000010000100000001
00010000100110000010000001110011110000000100001001100000010000111110000000110011110000000100001000
00010001000010011000011000001110011110010000010000100110000010000011111100000001100111100000001

00001000001000001000001000100011110011110010000000000111111100000001101011110000100000000001111
00111100100000010000111111100000001101011110000000100010000100110000011000011100111100100000010000
1001100000100000111111100000001101011110000000100010000100110000010000011100111100100000000001111
111100000001101011110000100000100000100000100010000100110000011000011110011110000000111100000010000
1001100000100000111111100000001101011110000000100010000111100111100000001110000001000011111110000
0001101011110000100001000000100000010000001000000100001110011110011100000001110000001000010011000
001000001111111000000011010111100001000001000010000010001000010011000001000001110011110010000000
000011111110000000110101111000010000101000010000001000100001001100000110000111100111100100000010000
100110000010000011111110000000110101111000010000010000010000001000100001111001111001000000100001111
11100000000110011111000000010111000011011000001000011100001101100000100000011000011010111100000001
01110000110110000001000011110000101010000010001111001000000100001111111000000000001111000000000010
0000111100111100000001001111000010000010000001011010110000000101100100100000010110000001000011110000
001100001111111000011100001111111000011100010010000110110000111111000011110000000000000001111
00010010000110110000111100001110000111111000011110001100100001110011110011100000001101100000010000
01010001110000001101100000010000001010001110000001101100000010000010100011100000011011000000100000101
0001110000001101100000010000010100011100000011011000000100000101000111000000110110000001000001010001
1100000011011000001000011100001111111000011100000000000000011110011110011110000001110000001101
10000010000001100011110000001101100000100000010000110000001110000011011000001000000110000001011000
0010000001010001110000001101100000100000010100011100000011011000001000000101000111000000110110000010
00000101000111000000110110000010000011100001111111000000011100000011011000000100010010000111001111
00000001110100000110000111100000111000011111110000000111000000011100000010110000001000000111001110000
0001110000011000011100000000000010110000000000001011000010000000101100000000001110000001100001111
1111000000000011110000000111000000110110000001000011110011110100000100111100001000001000001011001
100100000101100101000000000001011000000000000101100001000000010110000000000111000000011000011111
11110000000000111100000001100000001100000000000011110000000000010000011100000000001110000111111
00000010000011110000000110000001101100000100000111001111010000010011110000101101110000010110010111
000001011011011000000101100001000000111000100001000010010000001100001111111000000100000111100000001
1100000011011000001000001111001111011000000100001001111000000000010011110000101111010000001011000001
0000011011001000000101100100100000111100111111000000000111000111111000000000100001111000000010
00101111000000011100000011011000000100001110011110000000100111100001000000000000101100101000000101
101010000000010110000000000011100100011000011111110000001000101111000000011100000011011000000010000
111100111100000010011110000010111010000010110011100000001011001111000000011011001000000111100011111
11110000001000100000111100001111111000000100010111100000001100000011011000001000000111001111000000
010011110000100000000000101100101000000010110101010000001011000000000011100100011000011111110000
001000101111000000111000000110110000010000011100111101000001001111000010111101000001011101000010000
01011001100000000101100100100000111100011111110000001000100000111100001111111000000010010000111100
001000100000010010000001000000111111100000010001000001110000111111000000100000011110000111100111100
00001110000000111000000110110000010000011100000111111100000010000011110000000101110000111100111100
100000100000100000010000010000010000011100000001110000111111000000001100111110000000110011110000001
1100000011110011110010000010000010000001000100000100100010010111100000001110000001111000011111110000
000111011110000010001000000101000000100001110011110000100101111100000001110100001111000010000001
100111110000000011001111000000011100000111000010000010001000000011100100000111100000001011100001111
000010000000001000011100001111111000000011101111000000100010000000010000000110000000111001111000010
0101111000000001111000011100001000000110011111000000011001111000000011001111000000011100000001100010
0000011100100000111100000010111000011110000100000000010000111100001111111000000011100000011011000
0001000100010000111001111000000011101000001100000111100000111111100000001110000001110100000010
000100100001110011110000000111010000011000001110000011110000000111111100000010010111110000001001000000
111100111100000111010000100001111000001111111000000100101111100000010010111110000001110011110000100010
11110000001110000001110000100000100000111000000011100000011100001111111000000100101111100000010
010000001111001111000001111111100000010001000001111000010010000111111110000000000100001111000011111
111100000010010111110000001001000001111001110100000100111000010010001000000101101101110000011010
1010000001011000010000001111001000100100000011000011111110000000001111100000000011110000000001000001111
00111100000010011110000100000100000010110111110000010110011101000001011000000100001111000000110000
11111110000001001100001001000011100111100000001110100000110000011110000011111110000001000000
11110000001001100000111001110010000000001111111000000000111100000010011000000100110000001111010000
010000001111001111000001111111100000010001000001111000010010000111111110000000000100001111000011111
111100000010010111110000001001000001111001110100000100111000010010001000000101101101110000011010
1010000001011000010000001111001000100100000011000011111110000000001111000000000111000000001000001111
00111100000010011110000100000100000010110111110000010110011101000001011000000100001111000000110000
1111111000000100110000100100001110011110000000111010000011000001111000001111111000000100000
111100000010011000001110011100100000000011111110000000001111100000010011000000100110000001111010000
0100000011110011110000001111111000000100001111000011111100000000001000011110000111110000011111
001111001111000000111000000110110000001000001010010011000000101000110000001101100000010000010010
0110000001010001110000001101100000010000010100100110000001010001110000001101100000010000010100100110
000001010001110000001101100000100000101001001100000010100011100000011011000000100000101001001100000
010100011100000011011000000100000010100100110000001010001110000001101100000010000001010010011000001111
00001111111000000100111111100000000000000111001111001110000001110000001101100000100000010010
01100000010100011100000011011000000100000101001001100000010100011100000011011000000100000010000010100100110
000001010001110000001101100000100000101001001100000010100011100000011011000000100000101001001100000
010100011100000011011000000100000010100100110000001010001110000001101100000010000001010010011000001111
000011111110000001001111111000000000000001110011110011110000001110000001101100000100000010010
01100000010100011100000011011000000100000101001001100000010100011100000011011000000100000010000010100100110
000001010001110000001101100000100000101001001100000010100011100000011011000000100000101001001100000
0101000111000000110110000010000001010010011000000101000111000000110110000010000001010010011000001111
00011100000011011000001000000101001001100000111100001111111000000000011110000001001111100001111
1111000011110000111100111100111100000000010011110000000000101100000000001011000000000011000010000000101
10000000000111100000101000010011110000100000000001011000000000010110000000000101100111010000010110000000000
111100000101000001001111000010000000000010110000000000001011000010000000101100000000001111000000101
00000100111100001000000000010110000000000010110000000000010110000100000001011000000000111000000101111
0000100000000001011000000000010110000000000010110000100000000101100000000111000000001110000010100000101111
0000100000000001011000000000010110000100000000010110000000000111000001010000000011100000100111000010000000
0000010110000000000101100000000001011000010000000000111000001000000000111000001010000010011100000100000000000

00000000010110000100000001011000000000001110000010100000100111100001000000000000101100000000000010
1100111010000010110000000000111000001010000010011110000100000000000010110000000000010110000100000
001011000000000011100000101000001001111000010000000000010110000000000010110011101000001011000000
0000011110000010100000100111100001000000000001011000000000001011000010000000101100000000001111000
00101000001001111000010000000000101100000000001011001110100000101100000000001111000001010000010
01111000010000000000101100000000001011000010000000101100000000001011000000000011110000010110000100
00000000001011000000000010110011101000001011000000000011110000010100000100111100001000000000010
1100000000000101100001000000010110000000001110000010100000100111100001000000000010110000000000
001011001110100000101100000000001110000111100001111110000000000011110000001001111110000000000
000001111000001111001110000000011110000000001111000011111000011110000111100001111100000100
0000000101000100001000000111111100001000000001010001000001100001111111000010000001001010001000010
000001111111000010000001001010001000001100001111111000010000100001010011000000000011111110000100
0001100101001100000000001111111000010000100001010011000000100001111111000010000011001010011000000
100001111110000001000001110000001000110001100011000100010000010011100001010111000001011000000000
0010110001111000001011000010000001110010000100001001000000110000111111100000010000011100000010011
10000111100101000000010011100001011011100000101101001110000010110000100000001011000010000001111001
0000100001001000000110000111111100001000001000001000001000001110000001110000001101100000010000111
1001010001000000111100001110000011100001111000001000001110000100011010000001100000001000001100
01111000010011000001000101000001000001111000000100111000011110000011111100000010010011100000001110
011110000000110100000110000111100000111000001010010101000001110011110000100101111000000100100000
011110000111111100000010010011110000001100111000000011010000011000011110000011000001010010101
0000011100111010000001001110000100100110000100110110111000001011000010000000101101101100000101100
0001100001001000000110000111111100000010010011100000001100111100000001101000000111000000111
100000101001010110000111001111010000010011100000100100010000010110110111000001011001000100000101100
0010000001110010001100001001000000110000111111100000010010011100000001110011110000000111010000011
0000111100000111000000101001110000011100111000000100111000000010111000000110100000101000000101100
00000000001011000010000001110010001100001001000000110000111111100000010010011110000000111001111000
0000111010000011000011110000011100000010100101101000011110011110100000100111100001000011100000101100
11001000001011000000000001011000010000001110010001100001000000011000000111111100000000001111000
000000010000001110011110000000100111100001000001100000010110010000000110100000000010110000001000
011110000001100001111111000000100100111000000011100111100000010111000000111000000101001010110000111
10011110100000100111000010000101000001011001010000000101100000000000101100000010000111100100011000
0100100000011000001111111000000100100111000000011100111000000101110000011100000011100111100000
100111010000010011100000111000000100100110000000101100000001011100000010111000000011110000000111
100111010000010011100000111000000100100111000000010110000000101110000000111000000110000000100111
000010110001000000101100000000001011000000000010110000000000111001000001000010000000100000011
111110000001100010000110110000001000100100010111100001111111000000100000111100000011000100001101100
0000100000111100100110010100001000010000100000001100000111111100000010000011110000001100000011000
11000000100001111001010000000100111100000110001000000010110000000000010110000000000010110000001000
011110010000010000100100000011000011111110000001100010000110110000001000100100011000100001111111000
0001100010000110110000010000100100011000100001111111000000100001111000000100010000110110000010000
0111100111100001000001110000001100010000110110000001000011100111100100000110000100110000010000
111000000100000010011000000110001000011011000000100001110011110010000011000010011000001000010000
0001100011001000001111111000000100000011100000011000100001101100000010000111000010011000000111000
0001100010000110010000011111100000010000001100010000110110000001000011100001001100000010000111000
00011000100000011111110000001000000111000000110001000011011000000100001110000100110000001111000
00111100000100001111111000000100000011111110000100000100100100000111111100001010011000001111111
111100000100001110000111111000010001000000011111100001000100001111110000100010000011111111000
1000010000101000001111110000100010000001111111000010001101000001111110000010001111111000010001
0100011110000111111100001001000000011111110000100100010000111111100001001000011111110000100
10011000001111111000010010100000011111110000100101010000111111100001001011000000111111100001001011
1000011111111000010011000000011111110000100110010000111111100001001101000001111111000010011011000
01111111000010011100000011111110000100111010000111110000011111100000111111000001111111000010011011000
1111100001010000000011111110000101000010000111111100001010001000001111111000010100011000001111111000
1000010100100000001111111000010100101000011111110000101001100000011111110000010100111000001111111000
0101010000000111111000010100100001111111000010101000001111111000010101000001111111000011111110000101
011000000111111100001010110000011111110000101101000001111111000010101110000011111110000011111110000
00000111111100001011000100001111111000010110010000011111110000101100110000111111100001011010000
011111110000101101010000111111100001011011000001111111000010110110000111111100001011100000000111
1111100001011100010000111111100001011101000001111110000101110100001111111000010111000000111111
100001011101000011111110000101111000001111111000010111100001111110000000000011111000000000001
0000011100111100000001001111000010000011000001011010010000001011001001000000101100000010000111000
00011000011111100000001001111000100000110000010110100100000001011001001000000101100000010000111000
000110000011111110000100000001001110011111110000011111100000100000111001111111111111100000111
111100001000001100111001111111111111111111000011111110000100001110011111111111111111111111111
11111111111000011111110000100001010011100001111111000011
11111111111000011111110000100001010011100001111111000011
01111111100000111111100001010110000011111110000101011000001111111000010101110000011111110000011000
000001111111100001011000100001111111000010110010000011111110000101100110000111111100001011010000
0111111110000101101010000111111100001011011000001111111000010110111000011111110000101110000000111
1111100001011100010000111111100001011101000001111110000101110100001111111000010111000000111111
1000010111010000111111100001011110000011111100001011110000111111000000000001111100000000001
00000111100111100000001001111000010000011000001011010010000001011001001000000101100000010000111000
000110000111111100001000000100111100111111000001111110000010000011110011111111111111111100000111
111110000100000110011100111111111111111111111000011111110000100001111110000100001110011111111111
11111111111100001111111000010000011111110000111
111111111110000111111100001000010100111000011111110000111
0100000000011100000011111110000111111100111100100000010000111111100001111111111111111111111111111
000100000011111110000111
1111111100111100100001111111000011111110000111
011111111000000111001000000000011111110000000001111000000000100000111100111100000001001111000
010000011000000101101001110000010110010011000000100001110000000010000111100111111111111110000011

001101000000001111001000000000011111110000100000000001101000000100111100100000100001111111000
01000000100000110100000000111100100000010000111111100001000000100000110100000010011110010000010000
0111111110000100000010000011010000010001111001000001100001111111000010000000000011100000000011110
0100000000000111111100001000000100000111100000000011100100000010000111111100001000001000000111100
000010011110010000001000011111110000100000110000011100000100011100100000010000111111100001000001
000000111100000111000000011100000001110000000111111000010000011100001000000111000000011100000011100
00010000011111110000100000000001000100000010011110010000000000111111100001000000000010001000001
0001111001000000000011111110000100000010000100010000010001111001000001000001111111000010000011000
01000100000010011110010000011000011111110000100000100000100010000010001111001000010000011111110000
01111111000010000000000100110000001001111001000000000011111110000100000000001001100000100011110
0100000000000111111100001000001000001001100000010011100100000100000111111100001000010000001001100
00010001111001000010000011111110000100001100000100110000010001110010000011000011111100001000011
00000100110000011001111001000001000001111110000100000100000100110000010000011001000001000001100
0001000001111111000010000010000010011000011000111100100000010000100110000011000011111100001000001
100001001100010010011110010000010000100110000011000011111100001000001100001001100001100011100100
000010000100110000010000011111110000100000010000101010000000001110010000001000011111100001000001
0000010101000000001111001000001000011111110000100000100001100001000000000111001000000000111110
10000100000010000101010000001001111001000000100001111110000100000100000101010000001001111001000001
0000011111110000100000110000101010000001001111001000001100001111111000010000001000010101000001000
11110010000001000010001000000010011110010000001000011111110000100000100000101010000001000111100100000
100000100000010000100010000000100111100001000000100001010100000010011110010000001001111001000001
0000011111110000100000110000101010000001001111001000001100001111110000100000100001000111100100000
1000001000000100001000100000001001111000010000001000010101000000100111100100000010000111100100000
00000111110000100000010000011111100001000000100001010100000010011110010000001000001111001000000
001000001000000111111100001000001000001111110000100000010000111100100000010000111100000001000010
00100000110000001111110000100000100000111111000010000001000011110010000001000011110010000001000010
000011001111001000100100001111111000010000001000010101000001000111100100000010000100010000001000010
0010000001001110010000001000011111110000100000010000101010000011001111001000000100001111001000000
1100001000001000000100000111111000010000001000010101000001000011110010000001000011110010000001000010
000000110000001101100000001000011110011110011110000000011000000110110000001000011110000001000010
000001000000010011000000000111111000000000101111100000000001110011110010000000000011100111001000000000011
11111000000001011111000010000001000011110011110010000001000011111110000000010111110000000010111100000000
001111001111001000001000001111110000000010111110000100010000011100111100100000010000111111001000000
0000001011111000010010000000011110011110010000100000011111100000000101111100001001100100000111100
11100010000101000001000001000010010000110000001101100000100000111100001111110000000100001111000010
0000010000010110000001000011110011110010000001000011111100000001000011110000000100001111000000010
11000010000010000001000001111000010000001000001110011110010000000110000010000000111001111001000000
000000100000010110000000011011000000100000111000001000000110000001101100000000110000000100000001011000000
11000010101111000010000001000010010000110000001101100000100000111100001111110000000100001111000010
00000100000010110000001000011110011110010000001000011111110000000100001111000010001000000001011000000
110000100000111111100000001000011110000100100000000011100001000000011100111100100000010000011111100
0000001001111000000011000000110110000001000001010000110000001101100000100000011011000000100000110110
0000110000001011000000011011000000100000111001111001111000000001100000011011000000001100000001000001
000000100000010110000000000101100000000000010110000000000011110011110010000001000011111110000000001
0011110000100000010000010110000000000101100000000000101100000000000100000001000000010000000101010
0001100000111111100000000100111100001000000000010110000000000101100000000001011000000000001000000000011
110011110010000001000010011110000100000100000101010000110000011110000111111000000001001111000010
0000000000101100000000000101100000010000010110000000000111100111100100000010000100111110000100000
100000101010000100000011100001111110000000010011110000100000000001011010000000000101100000000100000000
00010110000000000011110011110010000001000010011000001000001111110000000001001111000000000111000010000001
0110100000000010110000000000101100000000001110011110010000001000001011110000100000010000100110
000010000011110000111111100000000010011110000001011111000000101100000000000101100000000000101100000
0000011110011110010111110000111111000000001001111000010111110000010111110000010110111100000101111100
00010110000000000011110011110110000010000010101000011000001111111000000000100111100000000010011110000010000011000001
011000000000001011000000000010110000000000111001111010001000100001111111000000001001111000010
000011000001011000010010000010110000000000010110000000000011110011110100010001000011111110000000001
00111000010000010000010110001001000001011000010000000101100000000001111001111000100010000011111
11000000000100111000010000001000010110010000001011010000000001011000000000010110000000001110011101100000
1000001010111000010000001000010011000001000001110000111111000000001001110000100000010000010110
101110000001010110111000001011000000000011100111100100000100001010111000010000001000001001100000
100000111100001111111000000001001111000010000010000010110001100000101100001000001011000000000
001110011110111100001000000100000110100001000001010111000010000001000001000001000000100000010000011
11000010011000001000001111110000000001111000000000100000111001111000000010011100001000010000
0001011000011000000101100001110000010110000001000001111000000100000111111000010000010000100100000100
11000011111100001000010000010010000100110000111111000010000100000100000100000100000111111000010
00000100000010000001011000001000000100000111100000100000100000100000100000100000100000100000100
000001000000000001111001111000001000000100000100000100000100000100000100000100000100000100000100
00000111111000010000100000100100001001100001000010000010110001100000101100001000001011000000000
00111001111011110000100000010000011010000100000101011100001000000100000100000100000100000010000011
11000010011000001000001111110000000001111000000000100000111001111000000010011100001000010000
00010110000110000001011000011100000101100000010000011110000001000001111110000100000100000100100000100
110000111111000010000100000100100001001100001000011111100001000010000100000100000100000100000100
00000100000010000001011000001000000100000111100000100000100000100000100000100000100000100000100
0000010000000000011110011110000000000100000100000100000100000100000100000100000100000100000100000100
00000111111000010000100000100100001001100001000011111100001000010000100000100000100000100000100000100
000001000100010000010100000111111000010000001111110000100000100000100000001111110000100001000001001
000000111111000010000011000010101000001000001100001000001000001000001000001000001000001000001001

00001000001111111000010000101000010101000010000001101000110000001010100000100011110010001101000010
101000001000001111111000010000110000010101000001000000110100010000000101010000010001111001000101000
001010100000100000111111100001000011100001010100000100000011010011000000010101000001000111100100110
010000101010000010000011111110000111100001000001100000101100001000000010110000101000011110001001000
010101000011111110000111100001000010100000101100011000000010110001101000011110001001000010101000011
111110000111000010000100000101100000000010110000100000111100010010000101010000111111000011
11000010000111000010110011000000001011001100100001111000100100001010100001111111000000010110111100
0010000011000001011000010000000101100001010000010100010111000011011000000100000101000101110000110110
0000100000010100010111000010110000011000011100010010000110000000111111100000001011011110000100001
01000001011000011000000010110000101000001010001011100001101100000010000010100001011000001011000001000
000101000101110000110110000011000011110001001000011000000011111110000000101101111000010000110000001
0110001000000001011000101000000101000101110000110110000001000001010001011100001101100000100000010100
010111000011011000001100001111000100100001100000001111111000000010110111100001000011100000101100110
0000000101100010010000010100001110000110110000010000010100001110000110110000010000001000001011001100
00110110000011000011100010010000110000000111111100001111000000010110111100001000001100000101100001
0000000101100001010000010100010111000011011000000100000101000101110000110110000010000001010001011100
001101100000110000111100001111111000000010110000110110000010001111000001000100010011000001000001
11111000000011000011100001001100000101110000110110000010000111100011100100001000000100110000101000011111
11000000011001111000000010111000011011000001100001111001111001000010000001001100001010000111111
110000111100000001011011100001000011000000010110001000000001011000101000000101000101100001101100000
0100000101000101110000110110000010000001010001011100001101100000011000011110000111111100000001011100
001101100000100011100000100010000100110000011111100000001011100001101100000101100001101100000
11000011110000000101100000100010000100110000010000011111100000001011000011011000001000001000001
1100001011000010001110000010001000010011000001000001111110000000101110000110110000001000001000001
100000100001111001110010000110000010011000101000001111111000000011010111100000001011100001101100000
01000011100111100100010000000100110001010000011111111000000001100111110000000101110000011011000001100
00001000000100010000100110000110000011100111100000001110000000110011110000000111111000000011100
0010000001000100001001100001100000111001111000000011100000010001000100000011111110000000110
011111000010000011000010000001000100001001100000100000111100111100000001111000000100001111111000000
01100111100001000110000010000010000100001001100001110001110000000111100000001000000001000001100000
10000011111110000000110011111000000010001000010011000001000001111001111001000000100001001100000
01100111100001000010000001000010000010011000011100111100100000010000100000100001001100000
1100001111001111001000001000010011000001000001111111000000011010111100000001000100001001100000100
0001111001111001000000000111111100000001101011100001000001000001000000100001000010000001100001
1100111100000001110000001000010011000001000001111111000000011010111100000001000001000010000001100001
11001111000000011100000010000100110000010000011111100000001101011110000000100000100001000011000
00001110000001000011111110000000110101111000010000100000010000001000010000100001000010000100001
10000000111100000010000100110000010000011111110000000110101111000010000100000100000100000100000
0110000111100111100100000000011111110000000110101111000010000100001000010000010000100000100000
100000111110000000100010000001000010000010000010000011110011110010000100000100000100000100000100000
0110101111000010000000000111100111100100000010000111111100000011010111100000001000100001001100000
11000011110011110010000001000010011000001000001111111000000011010111100000001000100001001100000100
000111100111100100000000001111111000000011010111000010000010000010000001000010000001000010000001
1100111100000001110000001000010011000001000001111110000000110101111000001000001000001000000100001
1100111100000001110000001000010011000001000001111110000000110101111000000010000010000010000010000
0000111000000100001111111000000011010111100001000011000001000001000010000010000100000100000100000
1000000111000000100001100110000001000011000000110011000001000001100000011000000100000100000100000
0110000111100000010000111000000100001111110000011100000111000001110000010000100001000011000011111
111000001111000000000000000111100010010000110110000111111000011110000111000011100001000011000011111
1100000111100000000000000001110001001000011011000011111100001111000011110000111100001110000111110
0000001110000001101100000010000010100011100000011011000000100000101000111000000110110000001000001010
0011100000011011000000100000101000111000000011011000000010000010100011100000011011000000010000010100011
10000001101100000010000010100011100000010110000000100001111000011111100001110000000000000011110
011110001111000000011000000110110000010000001010001110000001101100000010000001000000100000010110000
010000010100011100000011011000001000000101000111000000110110000010000001010001110000001101100000100
0000101000111000000110110000010000001010001110000000110110000001000001111000011111100000001110000001
10110000001000100010000111001111000000011101000001100001111000001111000001111100000001110000011011
00000100001000100011100111100000001110100000110000011100000111100001111110000000000111100000001
1000000110110000001000011110011110100000100111000010000000000010110000000000010110000100000001011
00000000000111100000011000011111110000000000111100000001110000000110110000000100001110011110100000
1001111000010000011000001011001100100000110010010000000101100101100000111100011111100000000001
0001110000011111100000000001111000000001110000000011100000000111001111100000000011100000001
10000001101100000100000111100001111111000000100000111000000011100000011011000000100001111001111010
00001001111000010110111000000101100111000000010110011000000011110010000000111100100000100001000000
0110000111111000000100000111000000111000000110110000001000011110011110110000001000001111000000
00001001111000011110000001110000001101100000010110000001011001110110000001000001111001111000000
000111001000110000011111110000001000101111000000011100000010110000010000001110011110100000010011110
0001011110100000101101000100000010110011100000001011001001000001110001111111000000100010000011110
00011111100000010010000111000001001000001001000000010000011111110000001001011110000001001000001
111000010111010000010110000001011000000001011001001000000110010010000001111000111111000000000100001
1110000111100001111111000000100010111100000011100000011011000000100001110011110000000100111100001
00000000000010110010100000000101101010000000010110000000000011110010001100001111111000000010001011110
00000111000000101100000100001111001111010000010011110000010111000001011100000010110000000101100111100
000010110010010000011111110000001000101111000000011100000010110000010000001110011110100000010011110
00010111101000001011010001000000101100111000000100111000010111010000010111000000101100111100
000010110010010000011100011110000001000100000000001011001010000000101101010100000010110000000
000111100100011000001111111000000100010111100000001110000001011000001000000111001111010000010011110
0001011110100000101101000100000010110011000000001011001001000001110001111111000000100010000011110
000111111000000100100001110000100100000100100000001000011111110000001001011110000001001000001
111001111000010001011110000000110000001000011110000000100001111100000001000011110000000110000001

1100111111111101100110010000000100001001101011111101011010000011111000100011001100111111111011001
1001000000001000010011010111111010110100001000000001000010011010111111101101000010000000010001100
1100111111111011001100100000000100001001101011111101011010000011111000100011001100111111111011010
00010000000010001100110011111111101100100010000100010000100110101111110101101000001111100010001100
110011111111011001000100000000100011001100111111011001100100000001000010011010111111101011011010
000011111000100011001100110111111100111011011010110010011101110110110110110110111001111111
0111111011111001111101011101011100110110011010011100011110111011101100001010010010011010100
011111000010001111101011101000110111011010010110011101001011001010110010101100001010100111000
0011101011110011000000010000100010010100001111001000111000110011100110011001101001101001011100
101011001000010001001100000100111001011100000110010001011010010011100100001100110111001011000010000
100011001000100000000101000000100000000100000000000001000000100000101000010000001100100100101001
100000011111010011010101110011011101000000100100001010000110110000110000011001101110101110010
0110111011101100111010111101101111010011110101110101111010111011011011011011011001101001110010
0011010111001011000010100100100110100011101000010101111000111010101101110011010011001100110010
10110010101100110011011010111011101101011100101111111000010110001001100011111001001110010011100
10111100110011001010010101001011100101100011110001010100000010111101001101111001010101101
00100110010000100011001110011000100010000011000001000000110000001000000010100000010000010000001000
00101000010100001000000011010001001010011000000111111010011010111100110111010000000100100001010000
0101100011011111110011101101100111101101111010011111010111110011111101111100111110101111010111
10101110111011100110101100111000110101110001101110001101000101001100001010010011010100011110000100011110
1011101000101100010011000111100100111001011100110011001101010011001100110001001001000100001000100
11110100001011000100110001111001001100101110011001100110101001100110011000100100100010001000100
110000001001110010111000001100101010110010100111010000100011100000101100001000100001100000010001000
0101000001000000001000000000000010000001000000100000001010000100100001100010011000100111100100111
0010111010110111101111010100001010000011000011000010111111001101110101100111101011110101111
110101111100111110111110011111010111101011110101110011011101101110110111011011110011101111
11010010110011001100011111000010001111010111010001011101101001011001110110010011011001000110011
001110110110111010000111010001111010001011000100110001001100011110010011110010011100110001001101
01001101001001111001010110010000100010101000001001110100111000001100100010110001001100100011001
1100000101011001000100001100100010000000101000001000000001000
100011001001001010011000001111001001110010111010110111100000001000111101000011011000011000000110
011101101001110001011101111010011110101111101111101111101111110111111011111010111101011110011
01101101101001110001010111001010111101001011111010011001100110001111000010101111000011101000111010011
0101001100111010001100100101011010111010001101010011101000111101000111010001110010001001000101
010001111100100111001011100110001001101010011010100110001001011000111110001010100000101111010011
100000110010101101001001111010000110011010000110110000110010001000000010100000000010100000001000000001
0000000010000000100000010000010000010001000110100010010000110001001111000100111001001110101111011
1111110001111010000110110000110000001100110110110111010111101011100100111011101111010111100111111
0111110011110101110100111011011100101110110110100101100011110111011101100001010010110011001100
01111100001000111101011101000110111010100101100111011001011001000110011001100110110110110111000
0011101010111010100000010000101100010011000111101001110010111101011101011010110110011001100100
10110010001100110011010000110101001110000111010001111010100000010000101100010101000111110010100100
1011110011001100110101001101010011000100101011001000010001001000001001110100111000001100000110010101101
00100111001000011001101100101100010001000100000001000000100000001000000010000000000000000000000
001000000101000010000000110000100100001000100111100100111001011101011101111111001111101011010000
11011000011000000110011011011001111001011101101111010111110011111011111101111101111101111101111
101011101110111001011101110101001011000111101110010111101001011001100110011001100110011001101110
10111010101110011010100110011001100101110010110010110010110101110100001101010011100000111010001110100111
11111100001001000101010001111001001110010011100110001001101001100110011001100100100010000100101
01000000101110100111000001100100010110100100111001000110011100000101100001000100001100100010000000
01010000001010000001000000001000000100000101000010010001000100010001100100100100110000001111101001101
10101110011001110011111100011110100001101000011000001100111101101011100111101101110110110110111
110101111110011111011111011111010111101001101110111001011101101110100111101001111000110101110010111
1101001011001100110001111100001000111101011101000110111011010010110011011001000110010001100110011
00111011010110111000001110101011100110000000100001000100010111000111010010100100100110100110011001100
11001101010010111001001100100001000101000001001110100110111010010101100100100111101000011001
1100000011100001000001000010001000010001100000100000001000000010000000100000001000000010000000100000000
000011010001001000011000100111100100111001011101011011101111110010000101000011011000011000000110
0110111010101110010011101110101111100111111011111101111110111110011111011110111101111011110011
011011100110100111110001111010000110110000110000011001111011010111001111011011101101110110111011
010010110011011001010110010001100110011000001101000011010100111000011101000100011110100110111001011
010001110100101001001011010011001100110100110011000100100100100001000100010001000010010000010000000
10000011001000101101001001110010000110011011100101101001000010000010000000100000010000000100000000
10000000100000001000001010000100100010001000100010010001000000111110100111010111010111010110100
00101101000111000000110100001101100011111001111101111101101110110111011101101100111101100111101111
1101100111010100110100010101000011010001010100011011000101110101110011111011111011111011111011111
001001011011101010011001011010011010110110001101110110100101100110110010001100110011001100110011
001001101110111010100110010110100110101101001100111011011001011001101100100011001100111010100001
0110111011011101011101001110110111110011111101111110111111011111011111100111110111110111110011
0110111001101001111000110101100110111101000110110000110011000111110110101110011110101110110111011
010010110011011001010110010001100110011001000001101000011010100111000001110100011111010011111010000101000101
0100011101001010010010110100110011001101010011001100010010010010001000100010010000100010000010000000
1000001100100010110100100111001000011001101110010110100100001000000100000001000000010000000100000000
1000000010000000100000101000010010001000100010001001000100100010011110100111010111010111010110100
0010110100011100000011011000111011001111111111011111101111011011011101110110110011111011001111101111
11011001110101001101000101010000110100010101000110110001011101011100100010110011001100110011001110
00100101101110101001100101101000000101101011010110010001110011101000011001100111011010100011
0010110000110111001110000011100110110101111011000101100110011001110001001110000001011001100000100
01101011101101110101001101100101100001001001001011111110110011110110011110011111011111011111011111
0111101111101101111000110101110100011011000011000001100110001111101101011100111101101110110111011
01001011001101100101011001100110011001000110100001101010011100000111010001111010011111010000101000101
010001110100101001001011010011001100110101001100110001001001001000100010001000100010001000000000
100000110010001011010010011100100001100110111001011010010000100000100000001000000010000000100000000
10000000100000001000001010000100100010001000100010010001001000100111110100111010111010111010110100
0010110100011100000011011000111011001111110111111011111011011101101110110111011011001111101111
1101100111010100110100010101000011010001010100011011000101110101110011111011111011111011111011111
001001011011101010011001011010000010110101101100011011101011000011001100110011001100110011001110
001001011011101010011001011010000001011010110101100100011100111010001101000011001100111010100011
00101100001101110011100000111001101011001110111000101100110011001100110011001110000001011001100000100
01101011101110101110010011101100101100001001001001011111110110011110110011111011111011111011111
0111101111101101111001101011110100011011000011000001100110001111101101011100111101101110111011
11001110000111010011011001100110011001100110000011010000111010001111010001111101000010110000101000101
1000001100100010110100100111001000011001101110010110100100001000000100000001000000010000000100000000
10000000100000001000001010000100100010001000100010010001001000100111110100111010111010111010110100
001011010001110000001101100011101100111111111111011111011101101110111011101110110011111011111
1101100111010100110100010101000011010001010100011011000101110101110011111011111011111011111011111
0010010110111010100110010110100000101101011010110010001110011101000011001100111011010100011
0010110000110111001110000011100110101100111011100010110011001100111000100111101100111101101110111
0111101111101101111001101011110100011011000011000001100110001111101101011100111101101110111011
11001110000111010011011001100110011001100110000011010000110110000111101000111101000111101000101000101
1000001100100010110100100111001000011001101110010110100100001000000100000001000000010000000100000000
10000000100000001000001010000100100010001000100010010001001000100111110100111010111010111010110100
001011010001110000001101100011101100111111111111011111011101101110111011101110111011001111101111
1101100111010100110100010101000011010001010100011011000101110101110011111011111011111011111011111
0010010110111010100110010110100000101101011010110010001110011101000011001100111011010100011
0010110000110111001110000011100110101100111011100010110011001100111000100111101100111101101110111
0111101111101101111001101011110100011011000011000001100110001111101101011100111101101110111011
11001110000111010011011001100110011001100110000011010000110110000111101000111101000111101000101000101
1000001100100010110100100111001000011001101110010110100100001000000100000001000000010000000100000000
10000000100000001000001010000100100010001000100010010001001000100111110100111010111010111010110100
001011010001110000001101100011101100111111111111011111011101101110111011101110111011001111101111
1101100111010100110100010101000011010001010100011011000101110101110011111011111011111011111011111
0010010110111010100110010110100000101101011010110010001110011101000011001100111011010100011
0010110000110111001110000011100110101100111011100010110011001100111000100111101100111101101110111
0111101111101101111001101011110100011011000011000001100110001111101101011100111101101110111011
11001110000111010011011001100110011001100110000011010000110110000111101000111101000111101000101000101
1000001100100010110100100111001000011001101110010110100100001000000100000001000000010000000100000000
10000000100000001000001010000100100010001000100010010001001000100111110100111010111010111010110100
0010110100011100000011011000111011001111111111110111110111011011101110111011101110111001111101111
1101100111010100110100010101000011010001010100011011000101110101110011111011111011111011111011111
0010010110111010100110010110100000101101011010110010001110011101000011001100111011010100011
0010110000110111001110000011100110101100111011100010110011001100111000100111101100111101101110111
01111011111011011110011010111101000110110000110000011001100011111011010111001111011011101110111
0100101100110110010101100100011001100110011001100000110100001101010011100000111010001111101000101000101
0100011101001010010010110100110011001101010011001100010010010010000100010001000100000100000000
100000110010001

1000011110000111100001111000011110010111100101111010011110100111101101111100011111000111110101111110
0111111011111111000000010000001100000011000000110000001010000010100000011000000110000001100000011000
00001000000010000000011111101111110111110011111001111100111110101111010111101011110011111001111100
01111011011110101111010011110100111100101111000011110000111011101101100111011001110110011101010111
0101011101000111010001110100011101000111001101110011011100110111001101110010011100100111001001110001
011100010111000101110001011100000111000001110001011100010111000101110001011100101110010111010111
01100111011101110010111101001111100011111010111111100000011000001010000100100001011000011010001000
100010011000101010001100100011011000111010001111001000010010000100100011001000110010001100100011001
0001100100011001000010001111100011101000110110001011100010101000100010000111100001011000010010000011
1000001010000000111110111110011111001111100011110001111000111100011110110111101001111001011110000111
0111011101100111010101110101011101000111010001110100011101000111010001110100111010101110101110110
011101110111100001111001011110100111101101111100011111001111110011111110000000100000001000
0001100000011000001010000010100000111000010010000100100001011000010110000101100001101000011010000110
100001101000011010000110100001101000011010000110100001101000010110000101100001011000011010000110
0101100001011000010110000101100001011000010110000101100001011000010110000101100001001000001110000010
100000011000000110000000011111101111100111101011110101111100011111000111110001111100011111000111
11000111110001111100011110001111000111100011110001111000111101101111011011110110111101001111010
01111001011100110111000101110000011011100110110001101010011010000110011101100111011001110110110
01110110100011010010110101101101100011011001110000011100110110101110110111011101101111000111110
1000000100000110000011000010110000111000010110000110001010100011001000110110001110100011110010001001
000110010001100100011001000010001111100011011000101110001001100001111000010110000010100000000111110
01111100011110100111100101111000011110000111011101110111011101110111011101110111011101110110011101100111
01100111010101110100011100110111001001110000110111011101110111011101110111011101111011011101111
011100000111001001110011011101010111011011101110111011101110011111001111101011111100000001000
0001100000011000000110000001100000101000001010000010100000111000001110000100100001011000010110000101
1000011010000111100010001000100010001001100010011000100110001001100010011000100110001000100010001000
100010001000100010001000100010001111000100010001000100010001000100010001000100010001000100010001000
1000011110000111100001111000011100001101000011010000110100001101000011010000110100001101000011000
0101100001001000001110000010100000010111111011110101111010011101110111010001110000011011010110101
00110100000110011001100101011001000110010101100110011010000110101101110011100010111010101111000011
11010111111000000010000010100000111000001110000011000000101000000110000000100000001111110111111
1011111101111111110000000100000010100000111000001101000011010001000100010001000101000010100010100
0100110000111100001011000001110000000011110101111010011101110111010001110010011100001110000111000
001110000011100000111000101110010011101000111011001110111011101000111001001110000101110000111000
1101011111000111101011111010000001000001010000101000011010001001100010111000111001010001001000
110010011100100100100100110010011100100111001001110010011101001111001111001111001111001111100
0001010000101100001111000100010001001100010001000100011100001001000000100111111011111000111101
00111100001110110111011101110111011101111110000010100001101000100100001101000100100001110100
100001001000010010000100011110001101100010101000011110000011100000001111000111100101110110111010
001110011011100100111000101110000011011110110111011011100110110101101100011010110110100101101000011
01000011001110110011101101000011010100110110111000001110100011110000111101100000101000011010000101
0100011011000111100100001001000010001111100011011000101010001000100001011000001100000110000001100
00001100000101000010100001111000101010001110100010001000100100100100101111001011110010111001011001001
1100100001000110010001000100001001000000101111100111100011110001111010111111000001010000111100
01100100100011001010110011001110010011101100111011001101110010011110010010000110110000111100001
0011110101111010011110000111100011110010111011011111110000011100010001000110010001100100100100
10110100101111001011100101001000100001000111010001001100000101100000100111110111111001111101011111
0011111110000011000001110000101100001111000011110000110100000111000000011110001110111011
1001101101110011011011011010001101001011010111001110011100100111011011111001000000010000010
0100001111000101010001111000101100010101000100010001100000111000001011110011110101111010111100011
1110001111101011111001111110000001000000110000001100000011111101111100111110011111001011101011101
1011101100111010001110100011101010111011101110010111101100000110000110100010111000111010010001100
100111001001110010001100011101000101010000011101001110101011100000110110101101011010110110101
1011011000110110011100100111011011111100000111000011100001110000101100001111000011010001100100100
000010111110111110001111000101110010011101100111010101110110011101110011110110011110010111110
001111101011111001111100111110011111010111100011110100111100001110110011101000111001101110010011
1001101110100011101011110011111001111100001110100111100001110110011101100111101100111100100110010
010000111000001011111011111001111000111101110100111101001111010011110100111101001111010011110010
110100111100101110110111010101110011011100000110110101101101010101000011001101100110011001100110011
10110100101101100011100001110100011110001111111000001100000101000001010000011000000011000000011
1111001110110111100101110111011101010111010001110011011100110111001101110100011101010111010111010
1011101010111001101110001011100110101001100111010001011000001011100101110101011101001110001011
00100011010001011100111001110011100111101000001010000110000011100001110000110100001001000000
1011111010111100101110110011101000111001101110100011101101111010000101000011010001001100
0101110001011100010101000100010000101110000001011110001110101111001011110000111100001111010011110
11000000100000111000011010001000100010001110001000111111011110100111101001110101110101101011
010000110011101101000011011000111000011101100001001000101000111101111010011101011101011010110101
010001111100010111000011010000000111011011101110100001001000101000011110010011110010011001001
010001111100010111000011010000000111011011101110100011101000111010001111001000001100
0010110001010100011011000111010001101100010101000011010000010011111001111010011110000111011
1011011101111001011110010000110000101000101000101000100010001000100010001000100010001000100010001
1011010101110011011100010111001101010011001110100010110000010111001011101010111010011110001011
00100011010001011100111001110011110100000101000011000001110000111100001101000010100001001000000
1011111010111100101110110011101000111001101110100011101101111010000101000011010001001100
0101110001011100010101000100010000101110000001011110001110101111001011110000111100001111010011110
110000001000001110000110100010001000100011100010001111110111101001111010011110101110101101011
010000110011101101000011011000111000011101100001001000101000011110010011110010011110010011001001
0100011111000101110000110100000001110110111011101000010010001010000111100100111100100011001001
010001111100010111000011010000000111011011101110100011101000111010001111001000001100
00101100001010100011011000111010001101100010101000011010000010011111001111010011110000111011
1011011101111001011110010000110000101000101000101000100010001000100010001000100010001000100010001
0000001110100111010001110011011100111100111101100001001000101010001111001001111001111001100110011
10111011011110100000011111101111100111101011110000111001001110010011100100111001001110010011

101000111011101111011011111101000000110000010100000111000001001111110111110001110000110011011011
00110101001100111011001010110010101100111011010100110111101110101011101110000000100001011000011100
0100010000111100001001000000011110001110110011100010110110101101011010101101010011010100110101100
10111011101111001000001010000110100010011000100010000101100000000111011011101001110011011011
10001011100100111010001110010111111100001011000101100100001001001100100110010001100011011000011
110000000011100001110010011100010111001101101110011101110111100100001100001011001000110010001100
101011001011100101010010010100011011000011100001001111100111100011111100001001000101
1100100101001100110100000101001011010100010101000101000101101000001001100010010000100001100111110011
101110111000101101110110110011100000110011011101100111001011110101111010111101011110011111
0011111001111110011111100111111000000110000011000001100000111000010010000110000010110000100100
0001010000000011111001110110111100001110101011100100111000001101111011011110111000001100010111010
001110110011110010111101101111110000000100000001111110111111001111101011110001111011011
11010011110100111101101111011000000010000011100001110001001100010101000100110000111000001101111
0011110010111010001110000111000001100001011000111001101110010000001100010000011000001110001000100
00110100000111000000011101101111000011101010111010111011001111110000110100011001001001
0100101110011000100101110010010100010111000001001110010111000001101001011001000110001101100100011
00111011011000111000101110100111101001111010111100111110111110111110011111001111100111101111
0011111000111110000001000000110000001000001100000100100001110000111000000011110000111011011
1000101101100011001110110010001100001011000010110000101100011011001000110010101100101011001000110000
10101111010111000101101001011001010110110111011001010110001110100011110010000100100
01010100001101100001111100011010000111000001110000000111111000000010000100100010101001000
010010111001111001111001111001111001100100111100100001000011100000000111000000001110001101000100
1001001110011011101110111011000000100001001000100010001010100010111000101110001000100001011000001
001111100111100011110110111100001111101000001100010001000110110010010100101101001100010011001100
11000100110100111001000010001000100010001000001011110011110110111011011101101100111100111101
001111100011111000000110000011100000110000000100000101111100111101101110110111011011001111011
1010001110100000011000001101110110111001101110111000101110110110000001000010110001011000101000110
1100011101000110010000111000000101111010011101010111000101110000011100010111010101111010011111100
001001000011010000110100001001000000001110100111010001011110110001101001011010011101011011011
1000111010001100100001111000000101111010011101010111000101110000011100010111010101111010011111100
0010010000110100001101000010010000000011101001111010001101001001010010110100001100111001001101
101111010111111000001010000100100001001000001110000001100000000111110011111001111110000001100
000111000010010000101000010010000001011110011110110111100010110101101100110011001100110110000
10110001001100100101101001110110110011110011010000101000011010001001000101010000110011000100100
0000110000001100000101000011010001100100100111001101110100010100100101010000110011001001010
01000101110000011011101101110101011000101101101101011011010110110111011100010111010001111000011
110110000001100001101000100110001011100010110000110000010100000100111100011101100101110110110100
10110001101100000010111100101111011001001101101011110001011100010001000100001001100111110100001100
1110110010110100011011000010001111000110110111011001111000111100100000110000101100001111000011
11000011010000100100000101000001100000111000011100010111000111100100111001010010010010001100
0110110001001100001001000000101111101111100111110000000100000101000001110000011100000111000001
010000000011110011110100111010011100100110011011001101101101100011010110110011101100110111011
1101001111100011110001111011011101001111010011110110111110000100010010010001110100100001000111
1100010111000011110000011100000011000000110000100100010001000110110010000100100001100110000110011
11110011101100111100000110111001101110111001001110111011011011110001111011011101100111000000110101
0011001010110010001100101101001011011100110011011100001110101111101011111010111110100000100001100
01010100100010010101100110011001100110011001101001001010001010000110100010101000100100010011000100
11000100010000110100000010111010011100100110101101100111011010100111001011100110000001100
001111000010111000110010001010100010001000011010000101100001001000001110000001011111010111011
101110010011011010110100110101101011100111001101100111001011110010111010011110110110110100011
1001101110011011101001110111000000100000111000010010000001011101101110101010111000001101100110111
10111001101110010111110100000011000001110000010100000111000011010001100100100100101011100
1101010011000100100001000010101110010110111001100100101010011110010111110110001010100101101001110
11001111010011100100111000101010000010111110011110101111100000111000011100001100001010001100100
011011000011101000011101000011010000110100011101000111010010110101110100011100001110000111010
00111000001110100001110100001110100011101000011010001110100111011001100111011001101100111011
000110111101110100001001000101110001101100010101000010011110000110111010011001110110010110011101
10110001110001011101100111011011101100111010001110010011100110111011111010000110100001101100100
1010010010001111000010011110000110000111110011111010000011100010011000111000011110000111000110110
000111000000001110100111011001111010101110000111100000001100001011000100010001001100001001100010
01100010011000101010001011100011011000110110001100100010101000011100001001000010010000111000110110
01010010011011100111111001111010011010100100100010011000000110000000100000101000011110001101100100
10101001110001111000011001111001011010110101110101000010101010101001010110110110000110011001
10101110000011101000111110000111110110000001000001010000100110000110010011000001100110011001100
001001001001100010011010100110111001111000111100001000111000011011010110011001100110011001
101110011101110000000100001111000011001000111010000110010001100100011010000110100000100111110011110
0101110100011100000110101011010101101111000011110001110101111100000111000111101011111010011100001
101011010100011011000111001001111010100000100000111000100110001000010010000001011111100000
001000010110001100100100101010100100110010001100101010000110111110011110101111111000001010
0000111000000101111010011100100110101101010000110101001110011100000001000110110011000100011100100110
1010010010001000011111001110110110110110110111000011110001110000111010011110000111001100110011101
100110011010100111001101111010000111100010101000001001110111011010110110110011001100110011011
00011110001000011010010010011000100110011001100111000101110000011011111001111000111101011111001
11111011111011111000111001011101101110111011101110111000000110000111100011001000110110000101010001
000111101110011100110110101110000101110011100110111101110110111101001110011110011110011100101
11001001110110011011010110110001011100111001101101111011011110110111011011101101110011100101
110010011101100111011011011000101110011110011110111110101111100000111000011100001110001010001100100
11001001110110011101100111011001110110011110111010000101001011001001100100101010101100110110011001
100100111101100111011001111000001110000001011101101110000011001001110000111000101011101100110010110
00111110001011100000101100000001111010111101100000001000010110001001100010101000010101111
11011110010111000010110000000111110101111011000000010000100110001001100010101000010101111
00001110000001011110100111001001101011010000110101001110011100000001000110110011000100011100100110
101001001000100001111100111011101101011101001111000011101001111000011101001111000011100110011101
100110011010100111001101111010000111000010101000001001110111011011010110110110011001100110011011
0001111000100001101001001001100010011001100100111000101110000011011111001111000111101011111001
111110111111011111000111100101110111011011101110111000000110000111100011001000110110000101010001
0001111011100111001101101011100001011100111001101111011110100111100101110110111001110011100101
1100100111011001110011011010111000010110011110011101101111010011110110111101101110011011100101
11001001110110011110010000011000001110000010111011100000110010011100001110000101110101110010110
10010111101100100011001100110011001100100011000110110010001101000111111100010001000111010
00111110001011100001011000000011110101111011000000010000101100010011000010101000010101111
110111100101110010111011111001000010110001011001001001001001001001001001001001001001001001001001001
000011100000001111001111001001111010000001000010110000000010000101100010011000010101111
11011110010111001011101101111001000010110001011001001001001001001001001001001001001001001001001001
00001110000000111100111100100111100100111001001110010011100100111001001110010011100100111001001
00001110000000111100111100100111100100111001001110010011100100111001001110010011100100111001001
00101100101010110011110100010100111000011011000111010011101001110101111000111110011111011110101
00101100101010110011110100010100111000011011000111010011101001110101111000111110011111011110101

00011100111011001100111011001010110110001110110011111110000101100010101000111100100001000111010001
010100010111001001010011110101001011010000010001101011101100110011001100111011011010000110100011011
0001001100000100111111100001001000101100011001000001101110011011001000101110011000110110101110
1101111011000000010000101100011011001010010010101100011101000001001111000011101010111010101100110
11011000110010101100100111100110001101100110011001100110001111110110100001011101011000100111001010000
010100001001100010001000111000100010110001000100010001110101100000010011010101010101010110111011
0000110100001000111101011110010000111001011010011111001101110001111000010010000001000010010001
010100011101000110010001000100000010011110101111001011101010111010001111000011111010000110100010101
0000110011110100110100101011100010110100110100010000001100110011010010110100000100011100111101101110
100011110101000011110011000110001110100000001110100011100110100101101010101000010010000010010101
000111010001111001010110010101100001100110111001011011010110011000000110101101101110110100101100
011011001000110111001111001000010110000110100000111000001110000111100010111000011101111001011001110
101110101100110011111110010111100111110010000011101100110001101100000011010100111011101111110000
0011000001110001110100011100011011000100110000100110000010011100011110100111101001110100011010001111
0010100100011100111110011010110101101101010011010100110101100110011001100110111011011100001101
010010110110101010101111011101011000101110010110100101001001001001101100010001000101110010001100100101
00010010111010011010110010001100101011010101101101101011100010001101101110001000110110001010101
010101000101000111010001101000010111101011000010100100100100100000011101001101100100001001000110011
0100011101000101001011010000101011101011011011011101110001000000110000100100000111000001110000
11110001010100001000111001001011011010011100101001101100100011101010111101001110101101011010100
110111101110000111111100000111000000101111010111001011100001111011000000110001000100011110010
101100110101011110110010001101010011011100110001001100110111100111100111110011110010110010011001100
1011111010111101100100011010100110111001110000011011100110101001100110011001101011010010111001101111
110100010011000111110001100100000010111001101101011011011100111100001111000111001001011110010100010
10110010111010010001111001011100010010110011011001100110011011011101110110100011100111000110110101
100011011010011011101100110010000001011100110110101101110011110001110010010111100101000101110010100010
1000111000110110000010011011010101110001010110101011001010011010100110110101110001001011101001001
000100100100111101101101110110110100001001000010101110111011010000110100101111010010111101001001
00111011000011101101110010111100101111000011100110101001111001101010011101001001111010001110
100011101000111000011101011011100010011100110110010011100010011000001011000100111000011100000111
00111010010011110010011101010111101000101110101000010110001001100110011001100110011001100110011001
01110010000100101111001001101111000101111010100000101100010111001111111000010010000011100000111
000011010001000100001011000010010000110100001100111101101010011000010110111100011101010001010010101
0111001011110000000111011001111000011110110000001000011010010011101000101011000010100001010010101
0010001100101111001101110010111100011001000001010000001100000111000010010000110100011101001110010100
1011010000101001010010001010100010101001001010011000100101110010011100100111001011010010101100011011
00001011000100010010110101001101010101001111100011110000101000001011000110110010110011001100010010
0101000110011101011110001110101001110101001101001101001001001110110111011011011100100010001001001
00101010001011010101101000101010001010010101001000100010010001100110011011010010101101000111010001
1100111100011011100110001011110001111100110110011100010111011001111010111100011101000111010001110000
11100100111001101100000101011101010101010101001100000010000100111000001100100011110001010000110111
00110100111011110001011100100011110110011110011011001110000111011011101101101101101101100111010000
111000001111111001011001101110001101100111001111000011100110111011011011101101101101101101101101
0101000100010000011011111010000011100011011000110101111010110111011110001001011010101110101001111
00001000110010001011100010100001110110011111010000011001001010011011100100110111011011010101101
1101000011010011001100110011000111100011110010111001011010010010010011000100001111001000000010010111
001000100010101100110110100010101000101001010100100001001000110011001101101001011011010101000110000
01101111000011101101111101000100010001111000111010000000110111001101010100000110101010110001111
1000000100111100111111001111010100010111001101110011001100010111000001010000011100001011000000001111
010011110010000111000110110000100011101000111000110000001001001110011000100010110111011011011001100
101100101001111010011110110010010001000100000100110111000001011100110111011100011001000110001110
1000101100101010111011011101000010110001000011111001110110011101110110111011011011011011001011100
11111001000000001110100011001000101111101100011011000100100110100010001001000010111100111001101111
0100111010100001001001011110100011100110111000111100001110010101100111100110111000111101110000
111110010010000100100111000011101111011000000110000100011100110110010001111000110111000011100001110001
101011110000101110101100101101110100010001001011001100110011010001010110000101101010111010011111
001100110011011100111011001110010100000101010010100101000010100000101100110110010111000001101
11001011010100100110100100110101011110010011011100100110111010001100110010000111001000011100100101
000111010010111101000011001100110000010011101010111101010000101000010001110111011011100111001001111
000011101100110111001101111011110110001010100010111000000011100001110111011101010110001011101001
0000100100101011001001001111001011000110110100010000010100100001000001000110101101100111011110010010
0001000111001111001101011011101111011100010010000001011101101110111011101101110011101111101
0001010100010000100001110110111011001110111011001000010010010100001001101110111011101100011011011
0111000110101111011000001100101011010001010011001111000110110101110101001100010110000101100101
010000110001100011111001111011100000111001001010011100100110101001000010001011100100001001010110001
111100000111000001010010001100111101001100110001000011110110000010100010111000101010001110001011
01000011010110010011011110010110001101101011011111100001000111001101100001011000010111011010000
1011000011010000001100000111000110010010000100001110111100001101110111001001111011000010101111100
110110001011100010111000110100001110100011110000111011001101000110111011011101110111011110001
110100100111011110011000101011000111000010001101100100011110010001111001000110110110010000100100111
0001100100000011000011100110011001110100100010000001000000110001100100011110001110111100001110
10101110000011011000111001010001101001100010010001011101101010001111011010001111011010001110010001

10001011011100000111011010001111000001001100101011110011010001110010110011010010110110010010001000
11010111001010000001101011001010111100101101001001110011010100000001100100011101111001011010000010
01011001011000101000011100001010110100101110111101000110101000100100001000101110010101100010100111
010001110101100001011000011101111000111001101101011011101000001110010101100010010111000101110001
100001110001101011111101110111100001001001001010001101001101100010010101001010100010110001010111
01111001110110010111101001101001011001001110101110000111000010010101010101010110001011100001000111
1000010001100110010111010110100001110011011101001110101101000011011011000010110000111011100000110
1111100000010111010101010011010010110101100001010011010010100101110001101110110001001011001110011
1001110110100100100011110000110100011110010001100000110110110011101100111110100001101000000010110
1010011000011000011010100110100001011001101110100000011111001010010100111001110011101001001001
100010101001110010100100100000110110010101101101011110110000000100101001010010110001010011011101000
10011010111110010110011000110110010010001011100011110111001101101101000000101111000110000101101010
10100010110000001001011101100001010110100110110001101101010101111011000100001110110101010110110
10110111101100101100110110011011001110000110110101110000110110101110000100010001000110001111001
01111010100011000111111001011100010110110000000100111011010001010001110011100001100110011100100111
000001011100010111100111001001101110010111001110000100100001001101010010110100100101000101110001110
1010000010011010100000011000100110011101011101001001000101111010011000101000101000111100010000111
01010111010111010010010111010010010111010010011101010010011110001000011000010000111001110010001001
1000001010001011100111001001101110001010100000111001100010110101101100001001010110001100100101011001
011110011001101000011001100110001100100111101011111101111001001100110000000101110111011000001110011
011110101110010101100011010010111000001110110111010011001101111010010101100011000100010101100011
1001010111010000001011000010110001011010111101001000011000011000110010000110001100000001011111
0111000011101011000101010011000100000010111001110000110011111101010100010011000111000110000010111
11111000101110001110011101100111001010001001100001100110011101011101011010010110100110010001100010
01011100011000101111101100000110110101100101011001001010111010011000110111110010111001001100101000
11101000100101110110000010010110011001001010110011100100010010011100110010011001000101110010010000
11101000100101110011010000100101100100100110010001001001001110001000110001000100111000100000010
1001101110111001101010000110000001001000011111011001101110001011100110101010100001110001010001010110
110010010010011101110110000001100111011001100111011010101100101110001000110001111001000010101101010
01011110100001111000110101110110001001001100110101011001011100010001100011110010000101011101010
111010010110011001100111001000110011011001101110010101100110011011001101100110011001100110011001
010100010101110001000110010011011000011110010011011010110111001010010100011100100011101010100111000
1000100110011001100100100111010101101111000101110000011010101110101100001111111000010001111110
100101001001001101101001011101000110110000010100000101000010100010111000110110011011010000011001
1101100101011010000110101111001110011100111010011001101010101100011000110000110000110010010001
1001001001101111010001110100011011001001000110001110011000110011101000111100010111101110100011
010110110011001111011100100011000100001101110011011001010010110011101010110011010000101110001010001
11001101001011100101110100110011101010110001000001001100110011001001010101110110011101110010011000
101101000110110011001110010000001000001101101000110100011010001101000111010010110111000001100000011
110111000000101110000011101010010001100000100110000101011001100110110001100110011001100111011101
0100010100111101101000001110110100000110110011101001110110000101001111011000010100111001101010
0011001011110100100110110100000111011010000011011001110100111011000010100111011010100110001100011010
0011010000110011111001101110111000100001101000101001110010011011011000001001110110010100100101010
101101110011101110111101000001101110010011010111000011010011011010010000011011110000101111
0110001100111111100110101001110100111011000100111010001001101001101001101001100100100001100
101011001100010101000100111100111110011011010001001100011010111111100000001100011000001010110101
00101111001100101111001011100101110101010010010010000010111100111110100001011101000110010011001100
100001000100101110100110000001101001000110010000001001001001001010101101100111010111011000100
1011101100100111001110001100110010000011011001100111010001110110111011001101110100011010000100
00001101000011010000110011001100011010111001011110010100011100100111001000111000101000011000011
00110111010001010100111100111001101110110010010110111001000110100110111000101011000101000010000110100
0011010000110011111001101110111000100001101000101001110010011011011000001001110110010100100101010
10110111001110111011111010000011011100100110101110000110100110100101011001101101111110100111010
011000110101101100010010101011100010001000011011100111110100111110100111000010100111001101000110110
0011011001000101110011000110000000110110011101000111010011110000110101011010110100000011100110100
000101001101110001101100000010111100011000100101101001111010100100111001111101010100100010110011
1011101111010011010101000100100101000100101110000110111010000110100100010110110011001000010111
10011010001110100110110011001110010111100101111001110010011001101100111001100110011001100110011
0001101000110110011010000011010010111010000110100111011100100110010011001001100000011110110001000110011
0010110011011101110011010100111011001001101000010010000101000011100101010000110011010001001001100
00000011010100111000001110101011001011101110000111011111011100010110100001101100011011000110111
1011010000110101110100110010100111011010011101001011010100101011010000100110101110111100011100011
10101011001100110101101110100100001010000111000101110111001100101010110011110111001100101011001110
1100010111001111010100110011110110110010111011011100001100100111010101101110100011101110000010011
101000100100001000011011001110111001011111001110010011001101000000100111110100000101000
11010000001111110101001001111000111011010110000110011110010100100011010111110101110101101000010101
00011001000111011011101010000110101000011010110000101011001100010101010101100110010011011000101
01000011010010001000111011110010011011100100110000101011110011001010110101110001000011000111011
1001101011110111100110010001011011110100011001010111011101100000011000000110001011100010000111100
001110100011110100111010101111000100110101010111000010001101100010110100010101010101100101011
111011000011001111000011010011101001000100100010100011011000100010000001001010110101111001001
00111000100111010100100000100110100100110110010101111001101101100010011001000100100010010001110100
01110100110011001000101101100010100000100100101010101111101010001001101001101011011000000111100
11000000110111111110001101100101011000001101111110001000111000000101100101111011001100101110011010
11010011111101001101001011100111010000110011011110000110011010110001001101110100001101000001
1011101001001110011010000110101010000110101110000110011011100001100111000100110111010000110100001
01100100010011000111100001001100110010001010001010001100110001110001110011100110000000111000
10111010010001110100111100001111100110010000101010101000111100011110101101101011011010010110010011
0000001001010010001111110011001000110110001110001001001110001001101011010111000100010001111011
1001101011110111100110010001011011110100011001010111011101100000011000000110001011100010000111100
001110100011110100111010101111000100110101011010100111100001000110110001011010001010101100101011
111011000011001111000011010011101001000100100010100011011000100100010110011001101010111001001
001110001001110101001000010011010010011011001010111001101101100010011100110110100010010001000110100
01110100110011001000101101100010100000100100101010101111101010001001101001101011011000000111100
11000000110111111110001101100101011000001101111110001000111000000101100101111011001100101110011010
11010011111101001101001011100111010000110011100111010001100111010001100110100001101101000010100001
1011101001001110011010000110101010001101011100001100111000011010110001101101000011011010000110100001
01100100010011000111110000100110011001000101000110011000111000111000111001100000001110011000000011000
101110100100011111100011001100110000110101010110000110101011000111010101101101011011010010110010011
000000100101001001011011000101000010100011101000110101010001101100111001110011000000011101100000011000
0000001001010010010110110001010000101000101001110001101011011000110100011010001101000001101010011011100

00011100101111001100110101100110110001111010110111001001010010000011110101111000010111010111101101
110110011010101010000101100000010001101111000100100011000001010011111001011011111001111100010
011000010101110010011010100111110010011111000010001010100100011001011010110100000101000111001000110
0010111000110101110100100000101000010001101011011001010110111100101111000010101101111010110100111
1101110000100111101011010010001110110000001100010100001010111101110011001101011010000101000101110
100000011101001100011000010010001001100110011111010001100100111010110110011001000011011100110
010110011001110101100111100111110100000110110010001010000100011100110110001100101100101100111101010
0000100111010101011011000111110001000011111100010011000001110011100100001011000001010010000011000
001000001010010101100000111000101101010010110110100100100111100001100110010110100101100100101110
011001100011010111101010110010111101100100111000101100011100111011011001100111001100110011100
000111000101111001011100100101111001111110100101101011011001100010011101101011110000111001011110
111010100010111000000100011011001111010001101010010010111101101001010100111100010010010010011110
101010100110110101100011010110000101100110000100100001001001010111100010101000111101101110
00010110011110011101001111010011101000100011100001000111000010101111011011000100100010001100011
11011001000101011010000010101110010100010101000011000011100100101001011101100110111011100001110
10100010001110101100001011100110001110111100101011000011000010010100100011101100101011010011101
0010001111100011100010000100111011001001010010111010111010111001011010011101001100010101100110
0111101001000100111000100111010100100111000010100001001100101110011100110011000110000101110101
0001001000011011010110100010010110010001011100001010000010011001011100110010010100010000101110101
11111010001011100000110011110100001110100100110111100100011000000101001000111000010001100101110
111001001101111010111100111101000010010011001100010001110100100011000111110100010011000101001
0001110110110001110101100101011001100110011000101011000110011000101011001100110011010101010
1010011111010001110110100100100101000010110001100101010011001101010001111011100101111100111000110
111100100001010101000001110001100001101001101110100101100100000110111010000111011010010011010100111
11101110110001001011001000111010100000101000101001110110001110100010011010110010100100011101001
110111010111010111000111010010101110001110101101110110110100001000110101101001111001101011101
11101101011100010101110100110110011101101000111011101001110001100000101000110000010100001101101
11011011100011001101100110110011011101010001110111101001110001100000101000110001100110011001
000001011010101000101001011100111011100001010101110111100101110111011100101111001011110000010011110
0101100011001101110001010011011001101110101000111001101111001011110010111011001111000110101
010110010111111000100101010011010011100111001110011001001011110001001011110001001101011011101101
101100111101010011001100011100110001110011100011001010110011001110011001110011001100110011001
0001001
10100011000111001001110011000110001100011000110001100011000110001100011000110001100011000110001
010010011110110011000001010000101101001110011100110100001111011000100110101011100110110100000101
0110010101111011000111000101001000001110101000100101010101110011001001110011100111001110011001100110
0110110111101001100000100100011001000101100101011100011000100110010101100011110110100101001001010110
11100101011100100111010011101100001000011001111011000111001100111010111001110011100101001001100101
11001110001101011010101011000100011001011001110001100110011100000110010101110001001010101100011110
010111011101100010011000101011101001110011100111001100111001100111001100110011001100110011001100001
110001101001001001011001101100011100000111111100001001000000011101010010110100111110101010001001
0001001010011001011000010110010100011001010011001110111011011010011000010010000010011100111000100010
00000110010011100000010100111100100101010100110110011100011110001010101000111000100101100100100100
01101000100111001101110010011000100101110000111000010101010001110001101001111000100101100100100
01010111000010100110101000111010000110011011100001101000001010001100100110111000010110001100101000
11100101010110101111011100010010100001011110110101011101110001100101010100110100001101100000110
000111010111110010110011001100101110101110100110000001111000111000101011010110101110001011100100
1101101111100010011000010101001000100010001001010010010111101001110101011110100111010101100010001
011010101011110101101100000101010010110000100010100101000010001100100001011010101110001100011010110
1101100111010101010101010001000101010110001010110011001111101101011100010110001100010100011010
1000001000000010111001000100010001001110100111100011110001010100010100010111011011001100100110010
1010000011011001100111100110001000111100110100000011110101110100100000001000011010100101100010001
1101011001100110011001000110001111100011110010111011011111010001110100001001000011010011010100100
01011101100110001001111011100011110010000100110011111101101011000001110001011101000001000001001
110100100000010110110011011010011101001101100100000100111110100000010011110011110101000101100101
1101100011011101100011100110011100110011010101000010110010011100100111001001100010100010110101
111001100000100110110110000000111000101100001011101101101110100101011001111001010110010100010100
11010101101000001101111001100000111000100001100110011010011100011010100110011110011011001100010100
11010001011111001011101100110100000111001100001100110011000111000101101010011101011001100000001
1101000101111100101110110010000011100110101000001110011010011000001010101011010111010000101001
000101001001101010010111100001001011010110000000111100110011000001111110011010101010101101110111
000100110001001010111011000100110001100011100010011011100010110000011100111010111110101011
110101001011100010110001011100000001010011010011101011010111000100010101011111110010001100100110
1100010011101011000000110100011101000001110001000011010001100101010011110101010011101001100010001110
11001010010000101000110101110100000110001000001100110011010011001001110001000111010011000110101
00011011010000110000101011110100101100111010111010011100001001000000101010110101101001101000101001

0000101001000110011011110110100101011101100101011011001010110011010011110111001010001101100010101110
11111001101100100001110101110100110101001100010000011000011101100011000000011000001000011001100
1110100001110000010100110010110110110000001001000101110101011101000111111100000100110111010101100
1101000011101000111100010001000100010111010000110110111001010101101101100101011010010110100001101
110110101001100101100000001110010111000110001101011100100100100110110101011010011010011010100110010
1101000011101000111010100001110001110001110110100110111001001100011001100110011001100110011001100110010
1010111010101110110100010100101101100110001100100011100100111111100101101010110110000110011101011
01010111010010110000011011110010110101101101001001100111000010100110100101111010010111010001010000
000110000001011001011110010011101100010010100101000001010001011011001011001100010100011011100100
11010010110010110010000110011001100011001100110000111100110011001100110011001100110011001100110000
1010111111011100011000001101110111011010010101001011100000010111001001101010100100110111100011101
0000100100001101000111010100010011101000100110010001001100100011001101010000011100101101000010101
00001101111011100010011001100101001000110110001100100100001101001000110011010100000111001011010000
1100100100010001110101000110100111011010011010011010011010001000110101000100011010110111101001001010101001010
0111001001101010011010100100011011010000011010100110100010010110101001001001010001111010011011010
1011101011000110111011100110001000100010010111001100111001000101001111110101001111000010101101
01110010000100010110111001100101011010010101101010100001000111110110000101111100101111010110110111
0000100011101010001110101110101101010100110110100110001000011011100110111000011011001100110110000
011100000110111001001100011100110010010001011010110111010001001001000000111011001110011010101110
1100101011100010101110010111010010101101011011000010110001000100011010110111101001001010101001010
00001100101100011001000010100011100110100101110110011011001101100110110011011001110110011101100110011001
011110101110101100110011000001110110010001010110000110101100110011001100110110110100110011001101
1010010111010011001000001010000011010110010010101101011010011101011001001110100000101000010100011011
000101011101011001101011001011011001011001101100010011010011110000110100010001010110101111100
1101110100000100101110011101011011011101101110010001011000100111011101001010110001001000001111
100011000010011000101010111000010101011100011100101100101100001000101101001100110011001111100
11011001110100110011001110010000011000000011111100000101100011010011101101101101001101001011
110101010101010010110101100011001001011100011010010101100011011000110011010000100110100001101100101
1100011011100110111011010111010100101101000101001010010101010101100100110110110001011101101110
010100000110011101000001001101100100011101001110100001000111010101101101010011101000111010011100110
110111010001000100011101100110111100110001000011100101101011100010011000100110001000100010001100
101100101101000011011000001000101101011100101000010010110100010000111000001110100111011011000110
1101100100001000101011101110001101100100111100011001000110010101100010100111110000111010011101110
01110001110100000011001101110101001001001111010111001000001100001101000011100000011100000011010011
01000011001001010010110010000100111011010011000001010001011000010110001010111000011100001110100
0001001100001110011011100100100001000100010010100101100110011100110011100110011100110110111101
000101010001010011110000111001010000101100101000110011000110010010110100110110001001100011100110101
011101010100100000111000010010010100010011110010000011100000011000000010000111011011101110110110
10111000101110101011101010000111010101111001111101010001001101100000101110000011011111011100110101
011101010101010010100100100000100101100011110100110010011000110001100111000111111011000100100
101010001111011100110000110101001101110100011010100000110001110001010010011000101001010001010000
1110101011101011011100100010110101001001001110001010101110110111010011100100000100110111100010
11000001111001100111101110100001010010111001000011101010000011010110100001100010011100100110101
00101110101010011001111010000110111110100010100101110000101000101110000110100011110011001100110011
00001000111101110010111001000110000110101000101001000110000011100010000111011001111100110110101011
0011000000010010000100110111010011010010011101000001011100001010011010000000100101101011011100010000
110010001100001011100110010011011001101000010000111010010100111010101100010011111010000111000
11010010101100110111000101010000100000110111011011011000100110010110100011101101001110110010011010100
101010101110111010000110001001100000100111000101101101100010001001101010101101100001110110010101111
111011001000101101010000000110010001011010100001000111110011001101011110010111001011100100111100100011
01000001001111101010101110001011011011001101100100100011000111001100001100001001011101111
110011011100110010100010101100010110110000011011100100110010101101101101101000010101110011100011001
001000101001101100110100111000110101101100110100101001000000011111010000101100010001000101010001
11011000010100010010011001010010010010101110101100111101110110011001000111010001111110011100010
01111101100100100001001000011010001011010000110001100100110000101110100001101000011101101110111
1001001001011000000111011001111001110011001000001010001001011010000100001011110101100100101000100
1111101010011100111010111101011101101001101001111110100000001001101010100100011000110011010000
110100011110110100110000100011001110110011010000000111010110011101100011000110011000000100
01111010010110101000111000010010001011010100101111000100010111100011011100111100100101110011
11101110000110010101111110111110110000101000010100110001101110011111010110000010010011010100
110111101011100011100111001110011101010111001010000101011001100101101001011001110111011000010011
10110001001100011011000001101101010011000000111001011110001100111011001100101110001100110100101111
00001000101001000001110011100110101110110111001000101101101010100110001001000110001001111
001010110000110000101111010111100101001001100001011101011000010011101011000010011101001001001001
0001101101000001111101010111000110010001111011000100010001100111010101000111011000111001100110011
010100111110001110100101010010110010101101000000110110110100111010100111000010010000010011010110
10111001110000101010111011010101111110001101001101001100110101011001100110101110101110010010110000
001011010110110100101110010001001001000110111101100000010111011010000010011101010000100110000100101010
1111000111010011000011001010101100000001001011100110010011001000110001101101011011000011000100010001
01110010000100000100110100101011101011100100000110000100011100010001110001011111010000110011010100
11110010000101010010001001101001000101110100101101110010011011001100110011001001011001110110
0000111001011101001111001100010111000011001000110101001101010001010110110101011001100001111
00001110010111010011110011000101110000110010001101010011010100010101101101011001100001111

0110011000011001001001100101010110001001001110010111100001001000001110101001101011110111000101001000
010101101001110110110101011110110001000100110010110110101011000010100000110001110000011100001101000
01010111101101110111011101100111101110010000110000101001110100010110101111010001111001011010001111
1000011010000010010001010110011101110001010001110001011100100010110001110001111000000010010110100
10100101100010000001000111110101000100100110110011011110000000011010100010111001000010000101
101100001000110011001100110000100111001100010001010010110110110001000001000101101010101
1011011101001001000010001110110101110001110100001001100001011100010001011100100100110111001100111
0111100001111101001011100000000110100110001001100110111001010101110010111010110001001100010101000
11110111100110000100101100101001010010000100100011001000101110100111100010100110100010100100111111
01011101100011110011100010111010100100001110000111000011101010011101010000001101100011101100011100110
100001100100100010101010100110001110011010011000110110001101011000101000000100101010111010001111001
100011101001001010101011101111101000011000010010101001101110000111110100001110101010100011001001
1100100001010100011010000110101110110110000100011101011111010000110001110001100100111110010101
0111000100011101100111011000010011010100010010101101110101101100001001011101110010100001000
01010111101101010001000011011001100110110001111110011111010001010110011000010101101110011010
01110111011100100111010011100110001110011101100110000110011011100010010110100010110000101000100110
1001100010110111010001010011011110101101110110000001111101101110011000010000100101010101010001
10011000111100111110011111001111100111101011001100010001000010010100101100100010001010110110111
01110110011101100001101000001001000101110100100100110111110011111010011000100001101000101010000010
0111101110100111101000110111001100000100011011010001001100111010011100111000110011011100111
110001011001011110000111111011101110011010001011100001111101110101000000010010011010010101010
011001001001101100011001100110100011010001000001000001101010111000010010011110111000100100111
010010000110111000010000011101001011001000010001100011100000101010010011000100101000110111010100101
10101110100100101000010001110011011000110110011010110010011100011001011001100001110001011000111001
100101100100101000010001110011011000110110011010110010011100011001011001100001110001011000111001
100101100110100011101010101101110110000001100110011000100110011010100100001001111000011001111000
100000100110011001101101011110100010101101101000010101101001100110111110000000100111100110011000
000010011001100110110101111010001010110110100001101001001110011100011110101000101010100010000001
10001000100111010111010011101101000100110111000100110101000111110101111000010101110000111
1101011000011000111110011010011101110011100100010000010011100000101011110101001010110100010001001
10100001010101110100111010101110101011101010110100100100000100110000011000001101011001001111001001
00101000100110001100101010101110110101110101101111001010010110011011000100110001001100001110011
100100101010001001010111011100101000111001110101110010100010111010100101110101100001100100000111
000001010100011011000111111100100100111100010100110000000011100001101111001011010000110001110
10001000110000011011100100110110100111010100111010100110100110000001100010011100010110101100010100110
01100110000110100110100100000111011101000011010111010000110101100100101110110100110111000010
1011110010011000100000011001011001110010001001010110010010010110010111000101110110111110001
11010110010110011000100101010001110101011101100110011001011111000110010101001011000010101011010
11011100101100110001001010100011101010111011001100110010111110001100101010010110000101010011011010
101011101011110001010110010101100100111001110010010110101111010100111011110000110000001100101011
001000111100010000101011001100000111011000101001011010100011001011101101101000001010001101011110
11010101000110100110110011100000010110000100100001000101110101111010110010001001100001010100
001101000100101111010010011101010010111011100010100000010111000110000101101101011010110101100110
010001011100001101100111000000101100001001000010001011101011110101100100010011000010110001010100
0011010001001011111010010011101010010111011100010100000010111000110000101101101011010110101100110
0100010111000011001101010110110100001101000000100001000101101101101100110001100011010010001100
000100101100001101011110110011111010011110100111101001110100111010011100000011010110000010111100
01001010101110110111001100100101011001110100110010111010110001110011000100101011001000110000011100
00010100011001000011010101100100101110101011101100111011010101111100110100101001101100001100111011
1010110011100111001110100001001011010000110100100011010101000011000100010001000111010000001100
000011001011100011000111010101101001011010001000010001100000101100101111101011110101011010111000
1011111110001111011001010111001010100001111100010011101111010010111010101011000000110100011100
000000110001101111101000100110100100101000110101110011010111001100100010000111010100010111010000
110100111100010110001100101010100001110100001001100011110000111000010001101000110000101111001101
001011010100010010001100101111000011101100010001001100000111011010101000001110101100001001001100
001111001100011110111000110111011010111000111101010011011010011001011010000010011110001100011010
00110010100111000001010101001100001100101101001011001110001100011000111010001111001100011100111011
01010111100101110011111011010111011001101110110111100100101011011001001101011011001001101100100011
00111001100010111011010101010110001001110001001110001001110000110101011000110101010101001001010000
01001101101110111011010001001001001000110001010100010010110110110000001011000000100011110100101100
011100110010010000100111011001100000100110011111000001100101111000100101010000010101011100011
11000110101111110100010011011010111110000101011110001000001011001000001011001011101101110011
0000010010101101011101101110110110011001100110011000011001111100011100010110010101101101000001
1011111011000001010001010011000010010111001001010100011011010000010010110100111001001001001100110010
011110101101101111000111110001100010100000101000100101101101011110010000111001011001111110100001
001010111011100010110010100000001111011000011001110111000010110011101001110100111000001011010101
00011100101001010001001110100111001100000110010011100110010011001100010011001001001101011001101
1010111001100101011111011100110010010010011101000011101010111010010100110100101001100001110011101
11101101000111000001110001111000110110010110100011011000100010011110111110011011101000101011101
010000101100110001010010101011101011100010001010001011101001110100111000100011100010001110011
001110111011100110011001101101011100010011001100110011100110011100000111001101001001110101011
0011101110111001101111101000000100101100111101010000111010001101110000011000101110101101101100
11111011110100110100110001111011011101000111010111010001110011000011001001111100101111100101111
1100000111001100001101110001111100010010001011110100110001001110100111010011100001110000110011
101011010000010011010011010100000101000011101100000011111010011100101011001001000100111010110011
11000011101001011011110100111110010001010110011001110100111010011101011011001010010011000000100

1110111100111010110101110011001101001100110101101100111011110100111101101010101001111000110110110
110101010000110000101001001100000010111011001100101100100011010011010111010011011011101101110000
111100110000011100001110001000100000110110111010011101101100000110100100111110110110110100001101
1110111100001111100101110101001100010001101101101101110011011011011001101101101110111110101100111
01101001100111011111101011110101011001101011001100010001101111101001010001110011011011110111
0010100011011011011100110011001100000100011100111001101101100110001010111100100101011110110101010
1000100100010100110111001101111001001101100000111100100111011000111001110100011011001001000010010
11110000111100000000110011101111101001010101101100110010001101010100001101000101001110101011101000
11011111000010101110100100110001101010011101101110011011101000101100001110101100100111001010111000
000101000010111000001000111010001001101111000011100100000110000101011110100110000100011100001
00101111001101101110100010101100111000010010101110010011100100111010111110011010011000101110000
1100111000101101101010011010000001011110011110110101011001000111100000010111100001010101011100100
1100011011110101011100101110010100010010011110111000010100000010111100111000011100110110000001101
01010000111011011100110011001100110011001100110011001100110011001100110011001100110011001100111010
11110101000000101010111011100010011001100100111000000011000000101110101001100111101010010000110
01011000100010001101100001011000011001110001000100110011100110010001110110100101110101000001011101
1001101001110100100010111011001000001110010000100111100000001001000110011110111011010101010100
111001100001110000000100100110100011000010011000011001001001010101000111011011101010101010001
1000100010011000100111001100000011011101000101101101101100000011000000101100111011110010111010111
11011000010001011000010111001001000110011110111001101011101100110001011001010001110011001001100001
1000001110100111100001111000000100010000110110010000111000001100001100111111011011010001100111001
01101001101101001101110100100111010001001100001110000110000000111100101000001111000101000010001101
100010110111001100100000111100010110100111000001100111000111101011000110100001101100100100010101
1010010100100110110101111011100011001001110110011010010101000110010010011010011010001000111010011100
01100110100110010011100010101001000101111101100110011101101100010101100000110100001110100001110101000
011011111101010011100010101010100110001100100111010110011110100111101111101010100010001101000100
11010110111101011101010011000111001110010100010110001110101010100010001110101000001110000
1001000011010100101001000000101101110100001001001011100000001000100010110101001011110111
0011011011010010000100010011011010100110110110001111010001001110100000100010001011010100101110110
1001101010011111010110100111000010001010011000000101010110000001010100110100110100010010111
110010000100011010001000000010011011011001000111011110100110010111100100011100100001000010110000011
1100011010100011011101010010110011000001010100011000010001111101001111101001110110011111001
0000001000110011010101101101010101110111000101101100110011001101011011111001101000101100001100100
01100110011010111001111010101101100011001000101110011011010001001110100010110000101011101000
1011101001001000100100
100111011000100101111100101010000111101010100001011011011000001101010100001011011111011101101000
01000101011101101000101101000101000111011100001010001010000001000001111000000100010000111010100001
01101101100010011011000111010101110110000011001100111011100100110001111010110100011110010010011001
0111011101000011111010001110100001001010001011100010111011001001101010110011110010111110001111000
0111101101111000100000110110111001011000100010100111110000001100100000111110001001100100101101011
011001110110101000001001101101010100011110111000001001111101001111000101110001111010110011110001
011111110101010010111000010101100001001100101101110100100111011100100111011111001010010000001000
10100110110110000111100011100111000001001110010110111010010110011111011010011011011100010111111
0111111011101100111110001010101011010101011001101110001011000010010011000010110101011111001000
1011101010000100100100011101101111100011100000111000010111100111100111100111101010010000001
10000000011010100111101100011101100110011001100111110100100101010011000001110000111001011011001
000110000011011100111001100100100000101101010000110100110111000100010100110101100100000010101111
10000010100111111000010001111001010111010101111101000111001101100110011110101000011011101100110
00010101011011011011101101100011101000111110001110110011111011111011111010001010110000110001001
01011101010101000111100000110101000110110100100101110110011110110010101100000110001101011111100110
10101000100101110011010001101001001110010111011100111100110010110110010000001000011010011111
1011110010101111100000000101100101111100101010001010110010010001011101101000111010001001011101001000
110001101011011010111100001110010111000011110000111000011001101101100101110100101110100100011100
1001101101101001100001001101011011000001000110001110000011100010101001001110001010100111001100000110
00100110011110001011100110111000001110001011100001110011001010110000001101000101011101101011110
01110100100111100011000001000110010100010011100001100001100000000110101100111110010110100101110111
0100011101101000011010111010010101101000111101100101100000011000000110001100111011001100100101
10100010011010101011000001110101110101001101001011110011011110110010101100000110001101111100011000111
111100001011000000101111001101000011101010010111000011101010110001001101100011001100111000110011100
10110011101001111000011010000111101000001000000001110011001010110000110011101101101100100000111100
000010101011100100101001000010000010100011101111000101111100101101110011011100000000110101
0110000001101110101010011010000010110110101010010001001100101101011011010101101010110110011010110
1000101001001001111010000011100010100110111001100101011101110101011101110001001100010101010001111
010001100101111011111101110011011011001101100011101010111101001100100100000101100100001101111000
10001111110011001100111001100111001101101111001100110011000100000101100011111110001111011100100
100111001000101101101100100001000110011110001110000110000000011001000100000001100100011101100011001
0101100100011001000010000101100000100110110010001001100000000110000010010011100100011000111010010101
011001000100010011001101001110100100101010111010101011001100110011001100110011001100110011010101
010001111111011010111001010110011110110000010001001110000110000001100000110011110100011000000111011
1000110101100001011010001001100010000001011101100110011000011000110011001100110011001100110011001
11000111100101101110001001100010000001110110110011001100011001100110011001100110011001100110011001
11000111100101101110001001100010000001001110110011011100011001100110011001100110011001100110011001
11000111100101101110001001100010000001001110110011011100011001100110011001100110011001100110011001

011001000111010101110101001101111001010100100100101100110010001100100110111101101111001010111010111
1001011101110110100110100000011000100010000101111001100100101000000101000001001011101111010000001
1000100010000101011100110110100001111110100111111000001001010110100010101011010100010101000001001
001110001010100011000111011001111111000010101101011011000110111001010010101100001100111000010101100
10100001010111100111101011010110001110011000010110000110000010100001111001001100110101110000111000
1010101000010111010011001000010010001010011011111010001100100011001001010101101000110011001101110
100110100110010001110110100111101111001000101011000100101000010001110110101001100111001010111
100110000100011100110101111010001110100001110000001100010001000001110011101100001001000001110001111
0110000010000011100100111000010111000100101010000111011100100000111100001100110010110010111011001
01101001100110001101111101010110000101110101100101100011000111001110110011100011000100101011110
0111000101110000011110000111001101011101100000001010010110101100100110101001110010110000100010001001
010110111011100010111000000010001110100110111000111001001001011110010100111011001011000010110010010
01111001101010101101001000110101100101100010000100100010010010110110000100010011000011110111
10001000010010100000110011010110111000110111000100001001000010010000000110100000000011000010010001
10001110110001101010111100000101011101101000101001111110000111001000110010111011001101110111000
01111010100010001110101100001011100110001110111001010110000110000010010100100011110110010101011010
0111010010001111000111010010000100111010010010101111010111001011010001110100110010010100010101
1001100011110100110100010001001110110010010100101110101111001011010001110100110010010100010101
01011100010010000110110101101000100101011001000101110000101000001001100101110011001001010001000101
110101111101000101110000011100111010000111010010011011111001000110000000101001000111000010001100
1011101110010010011110101111001111010000100100110001100010100011101100010001111010001000111010001000
101001000111011010001101101001001000101000010110001100101001110001110000101100110100011101000110011010
101010100111110100011101101001001000101000010110001100101001100110101000111101100101111100111
0001101110010000101010100000111000110000110100110110100101100100000110111010000111011010010011010
100111101110110010001001010010001110101000001010001101000110110011010001101001010010101000111
01100111011011101001110100111100011101000101011101011101011010110100010001110100001000110000110
1001111010100101100100101011110100000100111011010000101101000101101001100011110010111011111000
1110110000100111000101010110010011010001011001011001011001010110011011001000110011011011001
10010100100001011000110110010111001011100010011001100100111001000011010001000011110100001011010
000010011101011001110101000011010100001011010100010111001001101011001001110011011101011011001
011011101001100001110110011000101011100100100110010010010111011010011101100101011100101011011
000001101000011000111001001110011000100010101110101100100100101101101100100100000110110110101001
010000011000110010001110110001011100000010101001101110000001010100110110100000010101101000001001
0010001010100100111011001100110010101110101101000010010000100100001000100011011011000111010011
100001010110110011001100110011011010001010100000100000110101000011101010000100001101101110001
0010001101000100011010110011001101101101101110101101000010010000100010000100011011011000111010
00100011010101011101011011000010101001100110110001110000111000100100000001110101001011010011110
10101101110011010101101011000011100011000011101100001001000000011101010010110100111101010110001
110001100011100011010010010110011011000111000001111110000100100000001110101001011010011110101010
0001001000100101001100101100001011001010011001110110110001001010011011001000011000001010110001001010
01000100100110110111010000101001000010001000011011010000110110100011100100000111000010101101000110001010
11001000110100100101110011011100100110010110001011011000011101100001110100001110110001101000110000001010
011001001010111000010100110101000111010000110011101110000110100000101000110010011011100001011000110
010100011100101010110101101111011000010010100001011110110101011011100011001010101001101000010110
000011000011101011110010110011001100100111010110100110000001111000111100101011101011010111000101
1100100110110111100010011000001010100100010001000101010010110100001111010011110100110101011100011
0010001011010101111010110110000010101001011000010001010010100001000110010000101101010111000110001
10101101101100111010101011010001000100101011000101100110011001111101101011100011011001100110001010
001101010000010000001011100101001100110011001110001111001001111001011100011110100101000110111010011
001101010000001101100110010111001100111100110000011111010111010010000001000011010100101100
010000111010110011001100111001000110001111000111001011101101111101000111010000100100001101001101
010010001011101100110001001111011100011110010000010011010100000001110101100000111000101110100000100
00010011101001000000101101110011001101110100111011001010000100111110100000010011110110101000010
11001011101100011011101000011001101011001101100101101100001010110010100001010110010011001101100010
1110101110011000001001101101000000011100010110000101101110110110100101011001110010101100101010
001010011010101101000001101110011000001110001000001001100110101100010001110001011101101100001100
000000111010001011110010110111001101010000011100101100111000010010000001010101011010111010000
10110010001010010011010100101111000001001010110000000011100110011000001111110011001010101010101
1011100010011000100101011101100010011000110000111100010011011000010110000101100001110011101011110
10101110101001011100010110000101100000001010011010011101011010111000100010101011111110010001100
10011011001001110101100000110100011101000011000110000110000110010101011010110111100110001000100
0011011001001001000101000110101011101011000001100010001100010001101010110100011101000100010011
10110100010110101000011000010101111101001011001110101010011010111010111001001101100100110010010

1011110000101001000110011011111011010010101110110010110111001010110011010011110111001010001101100010
101110111111001101100100001111010111010011010100110011000000110000111101100011000000011000001000011
00110011101000011100000101001100101101101100000010010001011101010111010001111111000001001101111010
1011001101000011101000111100010001000100010111010000110110111100101010110101101100101011010010110100
001101111010100101100101100000000111100101100011000110101110010010100100111010101101011010010010
1100101000011101001111010100001110001111011101001101110001001100011000111010001000110011001001
110010101011101010111011010001010010110110100110001100100011100100111111100101101010110110000110011
1010110101011101001011000001101111001011010111010010011001110000101001101001011110100101111010001
010000000110000001011100101111001001110110001001010100101000001010001011011001011001100010100011011
1001001101000110010110010100010011001010100011000111100100110011001100110011001100110011001000001
110000101011111101110001100000110111011101110100101010010111000000101110010011010101001001101111100
0111010000100100001101000111010100010011101000100110010001000011111010110011001111010011001101001000
01010010110111101111000100110010010010001011000110010000011010010001100110101000001111001011
0100001100100010010001101010000110100111011010011010011010001101010001101010001000011010011010100011
111000011100100110101001101010010001101101000010110101001101001101001101001001001010001111010011
011010101110101100011011101110001100010001000100101111001100111001000101001111110101000110100010
10110101110010001000101101111001100101010101010111010101000010001111110110000101111100101111010
1101110000100011100011110001111000111100011110001100100110101101010001000011011001110001101001000110
110000011100000110111001001100011100111001001000101101011011101000100101001000000111011001110011010
101110110010101110001010111001011101001010110101101100001011001000100011010110111101001001010101
001010000011001011000110010000010100011100110100101011010011011100100111000110011011101100111011
011000011111011010001110101000011110110010001010110000011110110010001010110010110101001101011010
101001000011001100100100000001000100101110001011101000100101001111111010100001010110011010111010011
001101101001011101001100100000101000001101011001001010110101101001110101100100010011110000010100
0110110001010111101010011111010101010010111101110011001000110000110001001100011001001100100101010
1011110110010000111011100010011011101010110011110011001001001101101110011001001100100100100100100
1011111011001000010010111001110010110101110110111001000101100010011101110100101011000100100100100
0011111001110110100110010011110010000011100100000111110010001001111110000001101100110010101101
1011010011100101010101010101011011001100100101110001101100101101100011001100110011001100110011001
11001011000110111001101110110101110101001011010001010001010010100101010101010101010101010101010101
1011100101000001100111010000010011011001000111010011101000110011101000110011101010110110100110100011
001101101110100010010011101100110011001100110011001100110011001100110011001100110011001100110011001
1111001101110100000110011101110101001001001111010111001000100111100110010001100011001001100110011001
0001110100011001001010101011101100100010010111010011001001111010111001000001100001101000001110000001101
0001110100001100100101001010010010011011101001100000100111010100110000010100110110001001101101000011
11010000010011000011001101111001001000010000100011010100101001011101011100111001110111101101101101
1111010001010100010100111100001110010100001011001010001100110001100100101101001101100010011000111100
11010101110101010101000001110000100101001010001001111001000001110000001100000010000111011011011011
110110101110001011011010111110101000011101010111110011111101010001001101101000100110111110111100
11010101110101010101001010010010000100101011000111101001100100110010011001001000110001110011111011
00010010101000111101110011000110101001101110100011010101000011000111000101001001100010100101000101
01000011101010111010110010001011010100101010010010011100010101110110111010011100100000100110111011
10001011000001111001010111101111010001010010111001000011101011010000110101101000011000100101100010011100
10110100101111010101001100111010000110011010100010100100011000011100010000111011001111100110110
101011001100000001001000010011011101001101001001110100000101110001010011010000001100101101011011100
01000011001000110000110011100110010110011001001000011101001010001110100101000111101001011000100111101000
111000110100101011001101111000101010000100000110111101101101010100100110010110001001100101100010011001001
10101001010101110111010000110001001100000100111000101101101100010001001101010101101000111011001
010111111011001000101101010000000110010001011010100001000111110011001110101111001011010011011110
01000110100000100111110010101110001011011011001110011001000100011000111011000110000110000100101
1101111100110111001100101000100111000101110000011011100101011001011101101101000010111001110
0011001001000101010011011001110011010110011010010100100000001111101000010110001000100010
1010001110110000101000100100110010100100100101010111010110011110111011001100100011110100011111001
110001001111101100100100000100100001101000101110100011000110001100010111101000110100001101000111011011
11011110010010010011000000111011001111100111001000001010001001100011011001111010110000011100101010
1000100111110101001110011101011110101101100111111010000000100110101010100100011000110011001
1010000110100011110110100110000100011001101100110100000001110101100111011000110001100111001100110
000010010111101001010100100001110001001000101101011101001001111001000110111000110111110010010
1110011011101110000110010101111110111110110000101100001010011000110111001111101011000000110001001
101010011011110101110011100111001110101110010100001010110011001010100101011001111011101101100
00100111011000100110001101100000110110101001100000011110010111100011001110110011001011000110011010
010111100001000101010010000111001111001011011011010010011101101010101010011000100100010100011100
10011001000110101000001111101010110001100100011111011000100010000111011101010100011101100010100110
0110011010100111111000110100101101001011010000001101011101100111010100111000010010000001001
1010110101110011100001010111011010111111000110110011101011101001101001101001101011010101010
11100000010110101101010010110010001010010010010001101111101100100000101011010100001001100001001
010101111000111010011000011001010110000000100101111001100101100100011000110110101101100001100010
0010001011100100001000001001101000101011101011100101111001000001100001000111000101111101000011001
110100111100100001010100101001001001101101001100011011101001100011000110110011001011010100001
101010011110010000101010010100110110100110011110100110001100011011101001100011001011010100001
111011000001110010111101001111001000110110000110101001100110001101010000101101011010101100110
00011100001110111001101011000111101010110011000110100110011101001001011100110001010011010

0110000001011100110111011100101110010001110011010001001101101011001100110111001110111001110101
1100010110010010001100011101010101110101001000010100001000010101100000010110111011001110001110010010
01100000001011011100010110110010010010001100100000110110001110000010101010101111011101110110010001
11011110000001100001011000000101100111000100010000111000100010100000011001110110011110000100011101
1110010000011100101010100000010111001100001000110101100000100100011001110110000010110000011000010
111111000011000011111011001101110100011011011100100010010010010010000001101011001001001100011
000111100001101101100111011001101110001100100110100111001010000101101000110111101100000010111000110
00001110100001011000111000110010111001100101111011000110100011010001101001101000110100000001010101110011
0101111011011101110100011101101100011111001100010011110000110100110000110100110011001110011100010
00101010000111100101010111100101010000010010111001001110101100011011010111100100110110010010000
110110011110000110010110110100001010010000100101110111010100011101000000101011100010110000111011010
0011010111000001000111011100001001011110000111000010001101001011100110100000011011110000000101001
0001111110110111000110110010101001011010010010010001100110011010100001011000100001101100100000010
011011000000110000100011010010100100111111001001001001111011001001001101101001001100000011001101110
101001000001100101100001100111101110001111011010001101110101101001101000011000010001011100111110
000001100010111010100010010100100010011001101010001101100011100111101010010010110101000000010101
0101110000011100100100101101110110000001010011100000111011001010100001011010000100010101111101
110010110011011011010100010000100111001110010100001011100100001011011011011011011011011011011011
1101101001110110011110101010101011010100001110110100001011010011000010011101101100110011000101101
0111010101001001110100101110101001001111100101110100110110011111011001001000000101110110100101
00100100100110101010000100100111000001010011010011111100000001001001110110011011000111000010
0111100111001110100110110110100110011000111010001011011011011010010011000011100100111011100
111000001101111101000110101100100011011110000101011001111001000110000101011110110100001001000101
0101101001001101110000101100010001100100101100110011100111010001010010101100100101001011100100
0110100000100110011001101010000100011011001001101100100111000001110011111000110010000000110101001
01110001101110110111000100110011010011010001101001101100110101101110110110110110111011011011
11100011010101111001010110111001110001101101001001001101101001101101101110011100011000111000110010
1110101000111001100101011011100111001000001001101101100000001001010001101101011110011100101010
101101011001010110110101100101011110100011011001001101100101011101010110000100101100111101100000
1101110010011010010110010010000011101011100100111001001110100110100110000100011011000101011001
0111010101100010110110110010010011011001001101101001101101101101101101101101101101101101101101
1011010110001110010001101100110011001100110011001100110011001100110011001100110011001100110011001
110010011011001
101011010010010100100000010111011011111001111000011101010010110100010000111001001101100011111110
10001010000011011101011000110110000001011100010110110110100000101011101111011010000110011100011110
1010011100011010101110101011010111001011001001001001001001001001001001001001001001001001001001001
010110100011001000110110001100011010100110011100110001001001101010101010101010101010000001101100100101
000101110001001010101110111001011100100100110110010011001100110011001100110011001100110011001001
110010011011001001
101011010010010100100000010111011011111001111000011101010010110100010000111001001101100011111110
10001010000011011101011000110110000001011100010110110110100000101011101111011010000110011100011110
1010011100011010101110101011010111001011001001001001001001001001001001001001001001001001001001001
01011010001100100011011000110001101010011001110011000100100110101010101010101010101010000001101100100101
0001011100010010101011101110010111001001001101100100110011001100110011001100110011001100110011001
110010011011001
1010110110111000000011001010001101100000100111001001111010111001100111000111101101110011110001
101001011110000110101000010110001010000011100110000111011010001101110000001010100011100100111001110
101110101011001100011001001111101001001000011101110011000011100001000110110110010110010110010010110
00100111011000110101100110111000010001111011100010011100011010001001000000111111001110010110010010
0010110111000001101101011011000111010110001011100101011010000010001001011001010101101010110011010
11100100101000100101011001001100011100000111010101110101001100001110111011000101000011111000010101
10001010001111011100100010101110000100100100010101111101101101011100101010111010000011011000
11101011111001100101110110111000010101001000111100111001011011011010010111101010010111101010001010100101
100100011110110100000011111010001100100111101001000110000001011101101111101000000110100000100100
1101111011101010101000110101110010101100011011010010100111011110001000110100101110110100111101101
110110100001110010111001000110000101100001000111000010011100001001001101101101101101101101101101
010110011001101100100010100110111000100011000100111000011101000100011011011011011011011011011000
10101101101100001101101100100110011001100110011001100110011001100110011001100110011001100110011001
10001010001110110110010001
000111000100000110111001000000010101010011001110011101000101010001010100010001000100010001000100010
00000001010100011100100111011001110101011101101110010111000111101010011010110001010001010010100101
01100000011000011001110011011011001101100011011110001100011011010001000101100110111001001100011110
010100100101001000100011001110101110001101110011000100011100011000110011010001001100000100100001
10011011011000100000110011100100100111110100100010010011101001001010110100000001101100100000101100100
110011101001001010111011100100101110101110010010100111100100101001100111010011001101001001100100
000100100110110100011100011001010110001100110101100001101011000011010110000110111110101000100001001
001000110011001110000110110010001000100010001110000110110011011001110011001100110011001100110011001
1000010010001110110010001
000111000100000110111001000000010101010011001110011101000101010001000100010001000100010001000100010
0000000101010001110010011101100111011011011100101110001111010100110101100010100010100010100010100
01100000011000011001110011011011001101100011011110001100011011010001000101100110111001001100011110
010100100101001000100011001110101110001101110011000100011100011000100011100001001100100000100100001
10011011011000100000110011101000010100111110100100010010101010110100000001101100100000001101100100
110011101001001010111011100100101110101110010010100111001001010011001110100110011001100110011001
000100100110110100011100011001010110001100110101100001101011000011010110000110111110101000100001001
0010001100110011100001101100100000100101110101110100110011001100110011001100110011001100110011001
101100001001000111001110010011101101000100111011010001001110110100010010011101100010010001110000
1011000010010001110011100100111011010001001110110100010011101101000100111011010001001001110110000
00000101011000110101000101011001001100100110010011001001100100110010011001001100100110010011001

1001000011101100001100100100110010101011000100100111001011110000100100000111010100110101111011100010
100100001010110100111011011010101111011000100010011001011011010101100001010000011000111000001110000
1101000010101110110110110110110110011110110010000011000010100111010001011010111101000111100101101
0001111100001101000010010000101011001110001010001110001011100100010110001110001111000000001001
0110100101001011000100000010011111010100010010110110011001101111000000011010101000101110010001
000010110110001000111011001101100000100110101000100110011000110001101101000100000100010010101
0101011011011010010010000100011101101011100011101000001001100001011100001000101110010010011011100
11001110111100001111110100101111000000001101001100010011001101110010101011100101101001000100110001
010100011110111001100001001011001010010100100001001000110010001011101001111000101001101100011010010
01111110101110011000111001110001011011001001000001110000111000011101001110101000000110110011110110001
11001101000011001001000101010100110001110011010011000110110001101011000101000000010010101011101000
1111001100011101001001010101011101111101000011000010010101001101110000111110100001111010101010001
100100111001000010101000110100001101111011010000100011110101111101000001100011100010010011111
00100110100001010111011010100010000111011001100110110001111110011111010001010101001100001010110111
001101001110110111001001111010011100110011011001111011001111101000101010100010110000101010100
0100110100110001011011101000100011011110110111011000000111110110111001100000010000100101010101
011000110001110001110011001010111001111001111011011011010100101010100101010100010001001010101
1110111011101100111011000011010000010010001011101001001011111001111101001100010000110100010101
00000100111101110100111010001101101100110000010001101101000100110011101001100011000110110011
1100111100001011001011100001111110110111001010001011100011111011010100000001001001100111001010
1101010011001011001001100110011000110110011011001001110010000010000011010111000000010010011101110
01001110100100001110111000010000011101001011001000100011000111000001010100100110001001010001101101
01001011010111010010010100001000111001101100011011001101100110011001100110011000111000101100
011100110010110011010011101010101101101100000010011001100010011001101010000100110101000010011100001100
1111000100000100110011001101101011101100010101101101101100110011011001101100110110011000010100
0001001001010001001100011001010101101110110101110110110110011011001101100010010111100110000
111001110010010101000100101011101110010100011100110101011100101000101110101001011101010110000110010
00001110000010101000111011000111111001001011110001101001100000001111000011011110010110110100011
0011101000100010011101011110100111010011101101000110111000100110110100011111010111100001010111
00001111010110000110001111001101001110111001100100010000101001110000010101111010101010110001
00100110100001010101110110100110110111010011010111010011010110001001011101000111101000111010001
001000111010011101011110100100011000100110001001101001011000101001101011100011010011011001001
10111010101110001110100100011011000111101011000001000000101111110100000101111101100001101100
0010010100011110000101000001011100100010011100100010100110111110001001010111000100101011000100101
110101010001101110000110111001110000000101100001001000100101110101110101100100010011000010110001
01010000110100010010111110100100111010100101101110110001010000001011100011000001011010101010101
10011001000101101100001011010101101100001010000001000000100010010110110111011001100011011110010
00110000010010110000110101101110110011110100111101001110100011010110101110000011010110110000010
11110001001010111101101110011100100101011001110100110010111010110001110011000100101011001000110000
01110000010100011001000011010101100100101110101011011001100111010101111100110100101001101100001100
1110111010110011011000110100001001011010001101000011010101000110001000100010001000111010000
001100000011001011100001100101011010101101001011010001000010001110000101100010111101011101010
1110001011111100011101100101011100101010000111100011001110111010010111010101011000000110100
01110000000011000110111110100010011010010010100011010111001101011100111001000100001111010100010111
0100001101001111000111000110010101010001101000010011000011110000111000010001011000110000101111
001101001011010100010010001100101111000111011001100010001100110011001100001011011010001001
0011000011110011000111101110001101110110101110001111010100110110011001011010000100111110001100
01101000110010100111000001010101001100001100101101001010110011100011000110001110100011100011100011100
11101101001011110010111001111011010111011001101110110111001001010110110010011010101101101101
1000110011110011001011001110110101110110111001101101101110010010101101101110000110010011001110100
01000010011011011101101101000100100100010001100010101000100101101101100000101100000100011110100
1001000111001100101000100110110011000001010011010010110011111000001110010111100010010101000011010111
000111100011001011111101000101101010111110000101011011001000000110000001011001011101101011
1100110000010010111001011011011011011011001100110011001100001100111110001110001110010101101101
0000011011110110000010100010100110000100101100100101010000010010110100001001011001001001100
1100100111101011011011110001111000110001010000010100010010101101011110010000111001011001111110
10000100010101110110001011001000000011101110000110011011110000101101110000101100001011010
1011010001110010010100010011011010011100110010111001001100110011001100110011001100110011011011
00110110101111001100101011111101111001100101001001111010001110101011101001010011010001110
0111011101101000111000011100011110001101100101101000101100010001001111101111100110111000010110
11110101000010110011100100010100110111010111000110001100010100110100111110110100111010001001
1110110011011011100101110010110011011101001100110011001100110011001100110011001100110011001
111011001101110111001011100111001100110011001100110011001100110011001100110011001100110011001
1011001111101110100110100111011011101001110110110110011101100110011001100110011001100110011001
1011011101101000111000011100011110001101100101100110011001100110011001100110011001100110011001
1110110100001011001110010001010011011101011100011000110110100100000110000001011001011101101011
111011001110111011100101100110110110110011001100110011001100110011001100110011001100110011001
1101101011100100111001101111101000000100101100111101010000111010001101110000011000101110101101
1011001111101111010011010011110110111010001110101001110101100110011001100110011001100110011001
1011101101011100110010101111110111100110011001001111010001110101011101001010011010001110
011101111011010001110000111000111110001101100101101000101100010001001111101111100110111000010110
111101010000101100111001000101001101110101110001100011000101001101110100111110110100111010001001
11101100111011101110010110011100110111011001100110011001100110011001100110011001100110011001
1101101011100100111001101111101000000100101100111101010000111010001101110000011000101110101101
101100111110111101001101001111011011101000111010100111010111001100001100100111001100001111100
101111100000110011000110110110001111100010010001011110100110001001110100100111010110000110000
111011010110100000100110100110101000001010000111110100111001001110100111001001001001001001001
11101100111011101110010110011100110111011001100110011001100110011001100110011001100110011001
1101101011100100111001101111101000000100101100111101010000111010001101110000011000101110101101
101100111110111101001101001111011011101000111010100111010111001100001100100111001100001111100
1011111000001100110001101101100011111000100100010110110100110001001110100100111010110000110000
111011010110100000100110100110101000001010000111110100111001001110100111001001001001001001001
11101100111011101110010110011100110111011001100110011001100110011001100110011001100110011001

0001001111010001101100010010110011100111001011100011010100101110010011100001000100010001001101001011
0001010100010111001101001100011101000011110000110001010011100001000001101100010011011001000011010000
01001110101111101000111100110111000010101100011100000001010110001110010100110101100000011000110
11011101111001011101111000110010000100011110110010111100111110010001011011001111011001001101010
1110110001010010011011001010011100111010110001010100001011111100001100110010100100110001111000
1111000011000100010110011110111110011100110011001000010001011110111000001100010100010100010100
100011010011001111100011010110010010000110011110110100000101100100111010010011001100011011101
00010010111111001000010100100011101000111100100000010111011100000000110011001111101111101110
1001010001110000000011011101111100011110010110111000110001110010100010110011101101010101001100
1101100011010100110111010000110101010100010000110100111010011101001000110010010010011010100
101100100101001001010001010010100100001101011110010101101101001011001110101001101110110110
110110101001000011110001000001101110101011001110110101110110100001110101110010011101011111001110
001100010100101001010011101110110101010101010101111001111110101110010100110111001011101001
00010101111101000011001000110011001100011100101110101110101110101111000001110010011101011101001
0100111001110011111010110010000001010001110110000101100100001111101110001011011000101000010001100
0111110001011011011010101001101001001011101001000101010101110100011011011100111010010011101010
10011000111101101000111010111001101100110011100010110110001010100011011010111010110101010101010
10101000110101111011101110011001100110011000101001111000111100011100011100011100010100101011100110
0100101001110111011100101101001101101101100111001010010011011000110110100110010000011100010111011
101001011000010101110111000000001100101011110001011110010010001110010100000110101110100100100111
01110100100001101111000010110000100100001100111110101001111001100011100110111000010111110110
11110011011100100101000010110011110101101011100111001110010011100010110001011000101111001000
1100010110010110010001011110100111011100010111110011101101011001011010010111001101001010000101
1001001001000111011111010110011100100100111101011010000101110101110010100101010111100010011110110
1001011000110100011001111010011110001000000101110001000100001011100010110010111010110100110011111
0001101000100001011110101100111000100000010111000100010001011100010110010111000101100000110000100
10001011001010111001110010110011100101101100010111100110111010110010110011001010010110001011111
1000110100101011100111001010100011001011011011001110010110010110011001011001011001100110011111
00011010100000100100101011001110010110011001011001110010110011001100110011001100110011001100111
0111010100000010010010101100111001011001100110011001100110011001100110011001100110011001100110011
01100110111010011011001110011001100110011001100110011001100110011001100110011001100110011001100111
00011010011010010110011
11010100110010011010110011001100110011001100110011001100110011001100110011001100110011001100110011
01010111100110011011100001110001100110000111001011100010110000000111001001110000001010001100000000
10011000100010111100000110001100010101011101001101010111011011001110001110000010001001010101
01101000100010010011100101111000000011000101000001011111101011100110011001011111010010110110110
1010000110000110011101010111000101110100100010100110110001100101100110011001100110011001100110011
0101011111001000011001000011011000011001100100111010100010010011010100001010111001010101101100111
11000001101010011010001100100010100000011100100011001100110011001100110011001100110011001100110110
1101011010011010011010001010101100000111110011110101001010001110101101000011010000111010110000100
0111100101100111000100010100010011100010111000110011101100100001110010110110101110011100110011011
10011010011101011010111010111010100100111100100001110111010010011011101001001101101001001101101101
0110100110001001011101011000101101011010111110100011001101010000011001110110001001011011011000
110110001000100010101010000010010001110110011100010011000011010011110100000100100011010011001101
10101001100100010101110011011001001011010010001100000110111110100000101000100001101100011000111010
111011011101101110001001110001111101011011010011111100101110000111100110010111110001111110001110
01111010100000010110111100000001010011011101011000100101110011111011111011010011100010100110
110001110000001011101001000010001010110100110011111001001101110101010000010001110101000010000001
1011010101101100111110110100001110011011101110001010011111000111111011101010110011101111000111
011001011111011011001001011110000101001111010110000010000100010101100100100100110111010110111011
010000010111101010001001101011100110111010010001100101000011000010110001000100010010011010011011
0111011011110010011110000111100001100111001001110000011001110000001100011000111110011011001100001
01111111000101110000001001000110010101010101010101110111111000001100000010100001100001100111
10110110101001110100011001100111001100110011001100110011001100110011001100110011001100110011001100
1010010010000111011111100100111000000110010000101000001000101010010011011010110110001110101011010
11001010111010101010011110110000111011110011100110011011001011010011101100100001000011010100000
1000000110001100101000010110011000111010110000100001111001010011110101100001101011000101100101
11110011101101011111001011101001100101111000010011001000000100010000110100110000001011001101010110
100010100111011101110111010001101110000110101101010001000100011001100111100011111001100011000
0011101000110101101100111011101101010000000101100110010010010101011100101010110100000010110111
011011100111010001011000000010110101000100011101101001110101001110100010110010011010000101000111
10001000011101011100110011101100111010001110100001101000010011110111000101100001000110001110110
10001010011100110110000011101110000011011010101000101101100111000100010001000100110110110011101

1011100010001010111011001101100000110101101110001010101001010110101101100110100001010110110010010100
1010100110000010100101010111001010100100110011001101000011111101110010100111100000010100000011
10101001100110111010111110011001101001001010000000110111100010111000101110000001011111010010001
10101010100110001000110010001000011101110111010101011100100100101101010100101001001101110010111001
011110010001100101110011010100000010000111000111101110011100111010111010010010100101010101101
1010011100110011000100011001000010111100101100011000010100010101101110110010001100101110101001
11010110101010001010100010101110101001001011010010011100100011011000000101101010010100110111001
10001011010101010101010101111011000011110010101100010110110011100111100110010110100001011010010101
111001111110011111010001101000011011000110110110101011011111001110101100110100110011101011101
100011011001101101001101011011101101100111101001110011001101000110100011001100011110010100011
110101111010100000010001111011110110010001000110001010110100100001101000110110010101011010010000
011100100111101011100101110001010110110001011101100110111000100000101001100110000101100110010111
000001010111100100001000100001100110011011000111001001110011010111001011011001100010101110000110
100110001001101101101110100001010110000101010000100010011001100010101110010101110010101110010101
1000001111000110110010101100101011011100100101111100101101001100001101001010110110101110000101
1001001010100011100111001000100010001110011101101101101000011001100011011101011000000101011000011
10101001010001101110110100100001100110101000101011101110000001001110110000001001110100000010100000
10100100011101110100011100001000100010001001001001100110011011101101110110001101110010110111
001001111100011111001000110010011100011000110110110100101001000101011010110111111000100110001100
1010011110011010100011101010000110101000010110101000101101001010001011101001110110001100100001011010101
01001011110001100101110101110001100101110101100010010011011001101000010100010010101001100110111
110110001001100011000111000110001111100000100110111010100111001001110100001010001001010010010100
10101011011100010011010011111101101011000110110001010110100100000001010110101010011001010000101
10001001000111001111011001101110101100011011000101011010010000000101011010101001100101000011
01110010011101110110011011101011101101001101100010011001101001000110011010110011001100000111100
0111001001110111011001101110101110110100110110100110110110100110110110110111100011011001010001
10000000100100000111110010011111000100101000110010001110110110110011011100001110101100110011001011
011010000101000111001100110010100111000111001010011011011010000100110101100101001010110101101100
100000001000011110001001001100110010001001001001000100110110011111001010010010100110011001100
0101010010001101000110101011000101001001101001101100110110001001100100100100110011001101110001010
110100100100110101000101010000010101001010111001101100110110001001100100100110011001001010
001101000101101100010111011101110010001011011101000001111010100010001000111100100010001000100
110001010100011101110101011100001001100010011100110000011101010001000111001001101001101001100011
010101001100101101000011101101001110101100111110101101011010000111010110001101100000111000011
01001101010010001011110101010011010001101010010111000001010011001100110001001110001011100111011101
011101000101001101110111101100101101000001101011100000010111100011101110110110100111110
101011010010011011000101011010110000110110110001001010001110101110000011101101110000011100110011000100
101100101110101100101010000010110110011100110010010011101000110100110110001111101000111110100001
001111110111001101110001011000101101110000110100110010111100101110100011101000110110001100
001000101001001010011011011010001101011000101011011100000011110100111100011110101110110101000011
0100001010100001101000001001110010101011000100001111110101110101010001010000011101000111110100
000110101001001010011010101001011100001010001100000101011000001101100011011110000101011110
1100110111010100110000010011001011001001010001110111000010101100110100111001110110001101011011
1001101110101101001101010001001101100100100101010111000101110100110100011100110000111101000111
010001100100011011000001101001101001111101100111001100110110110011011000100001011011001100110100
001001001001110000010010101000101111010101111100111001101100110011011001100110110110010010110010
1011010110111001100000100110011001101011011101100101101101101101110100111010010000111011111100
0111110100100011111000110110101100010010101101101001011100010001000101011001111100011001101010010
10111010010011000100110111000001101101010010110011100110110110110110011100101000110101110010
111000001101100110011110110000110001100101011000111011010000001001000011100110110011101011101000101
0100100111010011110000001010110110110011011101010001011100100001110101100010010100001110101100
101110111110110011000101000100111100100110001001100010011110010111110100101101001111010000101000110
10110101101011000101110101100011001000001100010011000001100110110111010100100100110001100011
0011001111110100011110001010011100110011011101001100100011101001101000110100011001110001000100
1011100000110101110101001100101110110000010010010100110011010000111100011111001101110110100011
100100110111000111010011100111011000101011000011001111000011101011011000011010011000100010000111111
01000111101110110011000011100001110100111000110011011011000001100100100111001110110011101001100
0110110000000110101000111100100001110010000100111101000110011100110011001100111011000111000101
0010110100111111101010010101111011111010000110011000100111110011110010101111010100001101111100
101100111011001101110010011011110001001010100101011110010000111010111101111000001001000110001
101110101001110110010101100101110001110001100110110110101101011011011100000010000101011110101
1000001100001100001110010111011111010111100100110111001101001101000110011111111001110011001001
0100100101000110010100000100010010111101000011100010100111011010010101101000101011010000001010
01100010111110110011011011110111001100100101001110000001010000000100101011001011010000001001011
00110010001110001010100001110010101110010001001111100101111010000010011101011110100111100
01010100000111010010010100111101000110101101000011000111001110100010001001010110100010101100
0010110000110111001011100011111010011111001100001111101110100011101011000111011010110011001011
00011011000100101110101101100110011001101001100111010010001011001010010101001011110000111101
010010000100111010001011010100001000111110001011110100111101000101001100100101110010011110101
00101011101010010000100111001100010101000101010001010111110111011101010100001011110000011100
11010011010000011000100110111011010100111011101101100101011000111001011110011000100100010011010011
101000111000101011000111001100101000100110101000011100000001110100111000100010100111101011010
11001001001111110110101010010111011011100011000100010111010111000110011001100100100100110101
101000100110010000010100000101000001101000001110100111000100010100111000100010100111101011010
101000100110010000010100000101000001101010101001010011010101000101001101010001010001010001010001
00111010101110100100001101001110111110101001101100110101000101001101010001010001010001010001

000010011101111001110101101011100110011010011001101011011001110111101001110110101010100111100011
01101101010101000011000010100100110000001011101100110010110010001101001101010111010011011011101101
111000011100110000011100001110001000100000110110111010011101101100000111010010011111011011011010
000110111011110000111100101110101001100010001101101101110111001101101101100110110111011110101
11001110110100101001110111110101111010110110011001100110001000011101111101001010001110011011011
11011100101000111001101110011000100111110110010101110110100100011001111001010111001001011110101100101
0101010100010010001010011011100110111100100110111000001111001001101100011100111010001101100100100
00100101111000011100000000110011101111101001010101110110011001000110101010000110100010100111010101
1101000110111100001010111010010011000110101001110110111001101110100010110000111010110010011100101
0111000000101000010111000001000111010001000110110100001100010000011000010101110100100011000001001
110000100101110011011011101000101011001110000100101011100100111001010011101011111001101001100010
1110000110011100010110110101010011010000000101110011101101010110010001110000001011100000101010101
11001001100011011101010111001011100101000010010011101110000101000000101110011100001110011010011000
00011010101000011101101011100110001001110111000010100000010111001110000111001110000111001101000
0111110111101010000010010101101110001001100110010011100000001100000010111010101001100111101010010
000110010110001000100011011000010110000110011100011000100110011100110010001110110100101110101000001
011101100101001110100100010110101100100000111001000000111001000000100100011001111011101101010101
10100011001001100000011100010001000110000010000100011000011000110011111011011010101000011000001110
100001100000111010011010000111000000010001000011011001001000111000001100001100111110110110100110
11100110100110101110100100111010010001010001001100011101000110000000111100101010000111010011000010
0011011000101101110011001000001111010101101001110000011100111000111101011000110100001101100100100
0101011010010100100110110111011100011001001110110011010010101000110010010011010011010001000111010
011100011001101001100110001010100010100010101111011010011001110111011001001110000011000001110
10100001101111011010011100011000111000110101000100110001010100010011010100111001000111000000110000101
10011110000000110011001100101101000011011101010010010011101001101101011001001000011001110110010101
11011111101110111011000111000011010001010100010100010100011101110100100001100110011100010101101110
001000100000111001111011000101100110100010011001000011100010101101111001000010010110111001000110110110
00011011101011101101110100010101011000011010100011100100011100100010110110001001101100110101010
00100011010110111010111010100110001110011100101000101100011100111001010001011100111010100010001
110000100100011010100101001000000101101110100001001001011100000001000100010010010010010111
110111001101110101001000010001010011011001011010001100110011110100000100111101000001001111000111001001
1101101001101010011110101101001110000100010100110000010101011000000101010001101000110100110100010
010111100100001000110100010000000100110110110010001110111101001100101110010001110010001100010010110
00001110001110010100011011101010001010011000101000100111110100111110100111110100111011100111011100111
111001000000100011001101010111010100110101110100010110110001011010001001101011011110011001100001100001
10010001100110011010111001110101011011000110010001011001101110100010011101000101100010100000101011
101000101110100100100010010101010101010101010101010101010100001010110101101000010010110100010011010000010
01110010011101100010010111100101010000111101001010000010110101010000011010101000010110111111011011
00100001000101011101101001011010110000100111011000010011100110011001100010011110011000101110010001
1011100110010111010100001001101101010100011101110000010011111010100111101010011110010111001110101001101
1100010111110101010100101111000010101000010101000101001101100010001110101100100111010110010010000
0010001010011011011000011110001110011100000100111001011011101001011001111011010011011010111000101
1111110111110111011001111100010101010101010101010101100110111000110110000100100010111010101111
00100010111010100001001001001100010110101110001110000101100000101100111010011101001111001110100110
0000011000000001101001110101100011011001100110010111101001001010101001100000111000001110000111000101
01100100011000001101110011100111001001000001011010100001101001101110001000101001011011001000000101
0111111000001010001111110000100011110010101110101011111010001110010111011001100111101010000111011011
100110000101011011011101101100101100001110100011111000110110011111011111011110100101010000110
001001010110101010100111000001101010001110110100100101110010111011100101011001000110001101011111
10011010101000100101110011010001101001001110010111011100111010111100110010110110010000001000011010
011111011110010101111100000000101100101111100101010001010110010010001011101101000111010001001011101
00100011000110101101101011110000111000111000111000111000110011011011001011001110000100101110
0111101001101101010110001110101101100011101000001000100011100011100011001101101100101100011100
00011000100110011110001011100110110111000001110001011110001110011001010110000001101000101011101101
0111100111010010011110011000001000110010100010011011000110001110000000011010110011111001011010100101
1101110100011101101000011010111010010101000111101100101101000001100000110001100111011000110010
1001011000010011011010101011001000111010110110010010110010111100100011110010001111011001000110001101100011
0001111111000010110000001011100110100001110101001011100001110101011000100110110001100111000110
0111001011001110100111100001101000011101000001000000011110011001010110000110011101101101100100000
1111000001010111001001001000010000101000111011101100010110111100101101110011011100000000
101101011000000110111010110011010000101101101010100100011001100101010110101010100101101101100101
0101101000101001001001110100000111000101001101110011001010111011010101110110001001100010101010
001111010001100101111011111011100110110110011011000111010101110100110010010000101001000011101
1110001000011111001100111001011001011011101110111001100110011001100111111100111111000111101
11010010011100100010110110110001000010001101100110011000011000011000010001100111010011100110100
11010010011100100010110110110010000100011011001100001101100110000111000011000011001000110100
0111001011001110100111100001101000011101000001000000011100110010101100001100111011011010010000
11110000010101110010010010000100001010001110111011000101101111001011011110011011100000000
101101011000000110111010110011010000101101101010100100011001100101010110101010100101101101100101
01011010001010010010011101000001110001010011011100110010101110111010101110110001001100010101010
00111101000110010111101111101110011011101100110110011011000111010101110100110010000101001000011101
111000100001111100110011100101100101101110111011100110011001100110011001100111111000111101
11010010011100100010110110110010000100011011001110100110000110000110000100011001000110100
01110010110010001001000010000101100000100110110010001001100000001100000100110010001100011101
00101010110010010001001100110100110100100101010110101011100101001101010001001101110110101010000
10010100100011111011010101110011001010111011000001000100110011000010001101000100110001001000000
11101110001101010001101100010011000100011110110100001000100110000110001110100010010000000
1110111000110101000110110001001100010001110111010000100011000110011010001001100011100011000
11010011100011110010101111000100010001001011110110011001100010001000100010011001011110

1000010011001000111010101111010100110111100101010010010010110011001000110010011011110110111100101011
101011110010111011101101001101000000110001000100001011110011001001010000000101000001001011101111011
000000110001000100001010111001101101000011111010011111000001001010110100010101101101010001010100
000100100111000101010001100011101100111111100001010110101101100011011100101001010110000110011100001
01011001010000101101110011101011011000111001100001011000011000011000010001111100100110011010110110000
11110001010100001011011001100100100001001000100110011001111111010001110010011010101101100011
0011110100110100110010001110110100111101111011000010101100010010100001000111101101010011001110010
10101110011000010001110011010111101000111010000110100000110001000100000111001110110000100100000111
0001110110000010000011100100111000010111000100101010000111011100100000111000011001100101100101011
101100101101001100110001101011110101011001001001110110010011100011001000111001101100011100010110010
101111001110001011100000111100001110011010111010111111101001011010110010011010100111001011000010001
0001001010110111011100010111000000010001110100110111000111001001001011111001010011101100101100001011
0010010011100110101010110100100011010110100101010100100111000100010010010110110001000100110001
1101110001110101000100011101011000010111001100011101110010101100001100000100101001000111011001010
1011010011101010001000111010110000101110011000111011110010101100001100000100101001000111011001010
0010110011001110101001101000100100010001000110110010010101110110010110111001110011001011100010001001
00111110101110001001000011011010110100010010110010001011100001010000010011001011100111001001010001
00001011101011111010001011100000011100111101000011101001001101111100100011000000010100100011100001
000110010111011001001101111010111100111101100001001001100010001100010100111010010001100011111010001
0011000101001000111011011000111101011000100101100100010110001110101001110100111001010100001100
11101101010101010011111010001110110100100100101000010110001100101010011001101010001111011100101111
110011100011011110010000101010100000111000110000110100110111010010110010000011011101000011101101001
00110101001111101110010001001011001000011101100100001010011011101001101000110110010110010100
100011101100111101111000100101100100001110100100001010011011000110100011011001110100101100010100
000011010011110101001011001001010111101000001001110110100001011010010110100110001111001011101111
11110001110110000100111000101010110110010011010000101100101100101010010100101110011101100100011
001110110010100100001011000101100110110010111000100111001001110010001110010001111100100001
1011010000010011101011100010110100111010100010111001000101110010011010110101110010001110110111
0101011011011010011000011101110110001010111000101010011001010010111011101001110110010101100001111
0110111000001101000011000111001001110011000100011010111101101100101101001001011101111010100100000
110110101000001100011001000111001001110100010101110001001101110000001010011010111101000001001111
110100100100100010011110110101100101001010010110010010110010011000110000100001100011011100111001
0010011100001010111011001100110110010110110010110111011101110110100001001000010011101100011101
1100110010001101000100011010111001010110110101110111101101000010010000100010100111101100011101
001111001011101100111001100101011100010000100110000111101011000100111101011000110011110011001100
001010111110101100001110101110001011001001110010011100100111000101011100010011101011000010011100
100100001111100011110000110011101100111011001010000110100001110111101001110001100001010000
110011001100100000101101010100010100101110011101101000010101010111011011110111100101111011001111
0000010011110010110001001111111000100101010011010010010110011001111001100111100110011001101
01101110111011101100110110010000010100100001110100010100110101010111001100001111101000111110100011011
0000100011001000110011010000010011101100001110001110100101001100111101001100110100110001010010
101011100010101110101110101101101100001111001011101100100010101100100111001010111101001001
0001011000101001101011100010111001000101101010001001100100010111110110111100000001011001010000
0100110100100111011101010000010111011101011001101100010110001011100111001001000010100001110011
0101100011110100111000001101011100000101010000010000011000010010100100100111011010001101101110001
10001100001011110010001101100100011000111001111000100101101001110101101111000100110100001100000011
0001011000001100111100110000001010000101101001110001110111100110100001111101100010011010101110011
01101000001010110010101111011100011100001010010000011101100010101101100100111000111011100111
00101011001100110011011011110000101001010001000100010000110111000011110011010011101000110101111
11010001000100110110111010011000001001000110010001011001010111000110001001100101011000111011010010
100100101011011100101011001001110110000100001100111101110001110011001110101111001110011100110010
100100110010111001100110101110
111010001111001011101101100010011100010011110100111011100101111000101101100010111000001100
1110101100001110001101001001001011001101100011100001111111000010010000000011101010010110100111110
1010100000100100010010100110010110000101100101000110001001100111011101101101001100001001000001001110
011100010001000000110010011100000010100111100100101010010011011001000001110000101011010011110001
0010101100100011010010011100101110010011001011001001100111000011101100001110110000111010001100110000
001010011001001010111000010100110101000111010000110011101110000110100000101000110010011011100001011
00011001010001110010101011010111101110001001010000101111011010101110111000110010101010011010000
110110000011000011101011111001011001100100101110101110011001000001111000111001010111010101011
00010111001001101101111000100110000100010001000101010100101110100101110100100111110100110110101
10001100100010110101010111101011011000001010100101100001000101001010000100011001000010110101011000
11000110101101101100111010101011010001000100101011000101011001100111111101010111000110110011
00010100110101000001000000101110010100101001000001100110110011110001111100101010001101110110
1100110011010100000110110010111001100100110011001001110011100011110011110100101000011011011010
10110001000011101011001100110011001000110001111000111000101110010111011011111010001110100010010000
0011010100100010111011001100010011101110001111001000010011010100000000111010110000000111000101110100
000100000100111010010000010110110110011011100110111001000001001111101000000100111110100000010011110101
00001011001001110110001101110100011100110101100101101101010101010000010110010101100110010010001101
100010111010111100110000010011011011000000011100010110000101110110110110100101011001110010101100
1010100010100110101011010000011011100110000011100010000011001100110101001100100011100001011101101100
001100000000111010001011111001011011001010100000111001011001111000010010000001010101011010111
01000010110010001010010011010100101011100001001011010110000000111001100110001000011111001101010101
011011101111000100110001001011011000100110001000111100010011100010011100010011100010110101010101
1111101010111101010010111000101100010011000100110001011000100111000101100010110000011100111010
0011001001101100010011101011000000111000101100001011101101101101001010110011110010101100110001
00010000111010010001000010100011010001110101011000000110000110001111001000010101100001110100001
0100111011010001101010000110000100011000100000110001100110101100110011001100110011001100110011001
01001110110100011010100001100001010111101001011001110101010110001000111011011110010011011001001110

110111100100001110110000110010010011001010101100010010011100101110000100100000111010100110101111011
1000101001000010101101001110110110101011110110001000100110010110101010100001010000011000111000001
11000011010000101011101101110111011011001110110010000011000010100111010001011010111101000111100
101101000111110000110100000100100010101100110011100010100011110001011100100010110001111000000
00100101101001001011000100000000100111110101000100100110110011001110111000000011010101000101100
10000100001010111000100011100110011101100001001101000100111001100010110010011011011000100000100010
11010101010111011011010010010000100011101101011100011101000001001100001011100001000101110010010011
01110011001110111100001111101001011110000000011010011000100110011011100101010111001011101001000100
11000101010001110111100110000100101100101001000100100011001000101110100111000101001101100011
010010011111101011100110011100111001110001011101100011100110011101001110101000000110110011110
11000111001101000011001001000101010101001100111001101001100011011000110101100010100000010010101011
101000111100110001110100100101010101110111110100001100010010101001101110000111110100001111010101
010001100100111001000010101000110100011010111011011000010001110101111101000001100011110001100100
111111001010101110001000111011001110110000100110100001001101000100110110110110110001000010011011110
01010000010000101011110110101000100001110110011001101100011111110011111010001010110011000010101
1011110011010011101110111001001110100111001100011100110110011000011001101100010010110001011000
010100010011010011000101101110100010100110111011011101000000111111011011001100000100001000101
010100110001101001110110110011001110110011100110001110011001100110011001100110011001100110011001
00110111101110111011001110110000110100000100100010111010010010011011111001111101001100010000110100
01010100000100111101110100111010001101101110011000010011001100001001100110011001110011100011000110
110011100110100100001110111000010000011101001011001000010001100011100000101010010011000100100011
01110101001011010111010010010100001000111001101100011011001101010110010011100011001100110000111000
10110001110011001110011100111010101101101101100000011001100110001001100110011001100110011001100
00110001110001001001110001110101011011011011011011011011110010100101100110110001001011100
110000111001110010010101000100101011101100101000111001110101011100101000101110101001011101010110000
11001000011100000100110011001101101011110100010101101101000011010010011100111000111101010001010101
010001000000110001000100111010111101001110110011101101000100110111000100110101000111110101111000010
101111000011111010110000110001111001101001110111001110010001000010100111000001010111010100101011
010001000100110100001010101110110011101010111010101101001001000001001100001100000110101011001001101
00111110010010010100010011000110010101011011101101011101011011110010100101100110110001001011100
110000111001110010010101000100101011101100101000111001110101011100101000101110101001011101010110000
11001000011100000101010001101100011111100100101110001101001110001101001100000001110000110111110010110101
00001100001110001001001110101111010011101100111011001110100110100110100110100110100110100110101
110011000011111010110000110001111001101001110111001110010001000010100111000001010111010100101011
01000100010001110100011010111101001000110001001100010011001001100010100110101110001111001001111
10010010111010101110001101001000110110001110011110101100001000001011111010000010111100100000101110011000011
1011000001001010001111000010100000101100101000110011011100010100110111110001001001010110001000101
110000110101010001101110000110110011100000001011000010010000100010111010111010101100100010011000010
110001010100001101000100101111101001001110101001011101110001010000001011100011000010110110101011
0101100100110010001011011000010110011010101101000010011111100001000101101110110011001100110100111
110010001100000100101100001101011110110111101001111010011101001101011010111000001110101101100
0000101110001001010101110110110011100100101011001110100110010111010110001110011000100101011001000
11000001110000010100011001000011010101100100101110101011011001100111010101111100110100101011100
0011001110111010110011011000110100001001011000011010010011010101000110100100011000100010001000111
01000000110000010010111100011000111010101101001011010001000110001100000101000111111011111011110101
101101011100010111111000111011001010111001010100001111000110011101110100101110101010101100000
0110100011100000000110001101111101000100110100100101000110101110011010111001100100010000111101010
00101110010010011100010111000110010101010001110100001001100011110000111000010001101100011000
010111100101001010110100010010001100101111000111011100110001001100011000110011010111000010111010110
0001001001100001111001100011110111000110111010101100011101010011011010001001011010000010011111
00011000110100011001010010100000101010100110000110010110100101011000110001100011101000111100110
001110011101100101110010111001111011010111001101100110111011011110010010101011011001100110101101
1101100100011001111001100101110110010101011001100110011001100110011001100110011001100110011001
1101001000110011101011010111100011110001100010000001110111000011001110111000010110111000010110000
10110101010001110011001010100010010111010011100110000110011001100001101001100110011011001110110000
10110110011011010111001100101011111011100110010010011101000011101010111010010011011001101100110110
0001110011101110110100011100000111000111100011010010101000110110001000100111101111100110111010
001010111101010000110011100100101001101101011100011000110001100011000110011110111100010011101
001000111011001110111001110011001100111001100110011001100110011100110011100000110011111001101001
011111011011010111001001110011011110100000001001011001110101000001101000110111000001110001011101
010110110110011110111101001101001100011101011101000111010100111010110001100001100110011100110001
1111001011111000001110011000011011010001111100010010001101111010011000100111010011101011000
1110000111011010110100000100101001101000001000011011000000111110100111001011001011001001000100
1111010110011110000111010010101111010011110010001010110011101101100111101001110101101100101001

0011000000100111101000110110001001011001110011100101110001101010010111001001110000100010001000100110
10010110001010100010111001101001100011101000011100001100010100111000010000011011000100110110010001
10100000100111101101111101000111100110111000010101100011100000001010110001111001010011010110000001
10001101101111011110010111011110001100100001000111110110010111100111110010001011011100111101100100
11010101110100010100101001010010100111001110101100001010100001011111110000110011010100100110001
1111000111100001100010000101001110111110111100110011001100010000101111101110000011100000110000100
01011001000110100110011111100011010110010010000110011110110100000101100110110100100110011001110001
1011101000100101111111001000010100101011101000111110010000001011101110000000011001100111111011111
11011101001010001110000000011011101111100011110010110111000110001110010100010111001110110101010
10011001101101001101001110110100001101010100011000001110110011100110110011001100110011001100110
10101001011001001010010100010101001000010100110100000110101111001010111011010010110011101001101
1110110110110101001000011110001000001101110101011001110111010110110101000011101011100100110101111
10011100011000101001010010100111011101101
110100100010110111101100011001100110011001100110011001100110011001100110011001100110011001100110
10011100100111001110011111010110010000001010001110110000101100100001111101110001011011000101000010
0011000111110001011011010101010011010010010111010010001
101010100110001110111010001110101011001101100110011001100110011001100110011001100110011001100110
11000110010100111101111011110111101110011101100110011001100110011001100110011001100110011001100110
10011001001001110111011100101011001101101110011100110010010011011000110110011001100110011001100110
1110111010010110000101011101111000000001100101011110001011110010010001110010100000110101110100100
1001110110100100001101111000010100001001000010011111011010101110011100110101011100110001100110111
11101001100010110010110010001011110100111011100010111100111011010110010110010110010110011001100110
001000110001011001011001000101111010011110111000101111001110110101100101100101100110100101010
0001011001001001000111011111010110011100100100111101011010000101110101110010100101010111100010011
11011010010110001100001100111010100111110001000100111100101100110011001101010111100101010110011001
01111100001011000100101010111001110001010100011011001010110001010011010100110101001101001101001101
000111101011001010101110011100010101000110011011001010110001010011010100110101001101001101001101
000100011001001000111011111010110011100100100111101011010010100110101011001101001101001101001101
11011010010110001100001100111010100111110001000100111010100111010101100110001010010011011001101
011111000111101000110110011100111000101010001100110110010101100010011011001101100011011001101100
0001000111010101000001001001
0001000111010101000001001001
1110110011100110011001110101010001110101011001110101011001110101011001110101011001110101011001
1110110011100110011001110101010001110101011001110101011001110101011001110101011001110101011001
00100010010011100110111001111011100000110101001110101100010001001110101011110101010010001001011100
1110010110110000100111011011101011001110001000001001011011000100000101011000011010110000011100110110
0001000111000101110101000011001010110010111010001110101011100100111100100110111000011110011011100001
110111000011111010001101100110100101001010000010101011100100111001000100101011100010011110011011100001
0001011001111100110110110101000100110100111001100001000101001100110011001100110011001100110011001
000110010010101110010000011011010001010011111001011100000100101110000010010111000001001010010110
1000011100010110010110011100010001001100110011001100110011001100110011001100110011001100110011001
100001100110011001110001000101000101000100111001100110011001100110011001100110011001100110011001
010101010100010001001001110010111000000011000101000000101111101011110011001100110011011110100101101
1101101010001100001100111010101110001011101001000101001101100011001100110011001100110011001100110
010111010101111101000011001000011011000011001100100111100010001001001101010000101011100100101011101
1001111000001101010011010001110010001010000001100011000110011001110011001100111001100110011001100011
11011011010110100101100110100010101100000111110011110101001100011110110110100001110110110100001110110
0001000111100101100111100010001010001001110001011100011001110110010000011100101101100111001100110
011011100110100111011011011011101101110101001001111010010000111011101001001101110100100100011101
10110101101001100010010110101100110101011111010001100110101000001100110101000001100111011000100101011
011000110110001000100010101010000010010001101000110110011000110011001100011011001100011010001001010
011011101010011001000101011100110110010010110100100011011111010000010100010000110110001100011000
1110101110110110110111000100111000111110101101110100111110011011100000111001100101111110011111110
0011100111101010000010110111100000001010011011011101011000100101100111111011110110100111100010
1001101100011100000111100100100001000101010100110011111001001101110101010000010001110101000001001110101000110
0000011011010101101100111110110100001110011011101110001010011111000111111011010101100111011111
00011101100101111011011001001011100001010011110101100000100001000101011001001001001101110101101101
1110110100001011110101010001001101011100101110100011001100100001100110000110000100100100100100101
10011101110101111001001001111000011110001110101001110110011001100110011001100110011001100110011001
010110100111011010011101010010010101000111111010111010111101101011101111011001111011010100101001
01100111101010011010110101010110011001001111000101010111100110100110111100000101001011001100110011001
10100101011011011000110000010100010101011011011000110011101100110100110011001101101111010001100001
10100110111001011101111101001101110100011011100001011000011001100001100001100110000010111101101
01110001111001100011000110100001100101011101011000010110001000100011010000011011100110111101011110
110110011101110000100010111001111100001100111001001110000011001111000000110001100011111100111011001
10000101111111000110110000000100100011001
10011101110110101010011110100010100110011001100110011001100110011001100110011001100110011001100110
010100101001001000011101111110010011100000011001000010100001000101010010011011010110011101010
10101011001010111010101001111011000011101111100111100111001100110110011011001101100111010101010
1000001000001100011001010000101100110001110110000100011100110100111101010001101100011010100100101
1001011111100111011010111100101010101000101111000100110010000001000100000010011000000101001110
101011010001010011101110111101000110111100001101011010001000100100110011001111100011111001100
01110000011101000110101101100111011011101101000000010110011001001001010101110010101011010000010
110111101101100111010001011100000001011010100000001110111010011110110100111010100111010001001101
0000111000100010111011001110110011101100111011001110110011101100111011001110110011101100110011001
11101101000101111010101001001011100001010011110101100000100001000101011001001001001101110101101101
100111111100111011010100010011010111001011101010001011110001001100100000010001000000101001110
10101101000101001110111011110100011011100001101011010001000100100110011001111100011111001100
01110000011101000110101101100111011011101101000000010110011001001001010101110010101011010000010
110111101101100111010001011100000001011010100000001110111010011110110100111010100111010001001101
0000111000100010111011001110110011101100111011001110110011101100111011001110110011101100110011001
1110110100010100111001101100000111011100000110110101000101110110011100001000100010001001100111011

1100011101111001000011101100000100100100110010101011000100100111001011110000100100000111010100110101
11101110001010010000101011010011101101101010111101100010001001100101101010101100001010000011000111
00000111000011010000101011110110111011101100111011100100000110000101001110100010110101111101000
1111001011010001111100001101000001001000101011001100111000101000111100010111001000101100011111
0000000010010110010100101100010000000100111101010001001001101100110011101110000000110101010001
01110010000100001011011000010001110001100001000100011100110001100001001001101100011000010110110000000
10001011010101010111011011010010010000100011101101011100011101000001001100001011100001000101110010
0100110111001100111011110000111110100101110000000011010011000100110011011100101010111001011101011
000100110001010100011101111001100001001011001010010100100000100100011001000101110100111000101001101
100011010010011111010111011000111001110001001011011000111000011011010011110101011101010000011011100
1111011000111001101000011001001000101010100110001110011010011000110110001101011000101000000010010
1010111010001111001100011101001001010101011101111101000011000010010101001101110000111110100001111
010101010001100100111001000010101000110100001101011101101100001000111010111110100000110001110001
100100111110010111001000111011010001000111011000010010010010011010110110110100001001011010000100101110
11110010100000100001010111101101010001000011101100110011011000111111001111101000101011001100
001010110111001101001110111011001001110100111001100011100111011001100001100110111000100101101000
1010111101000100110100110001011011101000100110111101011011101100000011111101101100110001000001000
1000101001101110111011101100111011000011010000010010001011101001001001101111100111110100110001000
01101000101010000010011110111010011101000110110110011000001000110110100010011001110100111001110001
1000110110011100111100010110010111100001111101101110010100011011100111110111001100000000100
1001011001010110011101001100011000110001101100111011001100100011100100000001000001101011110000100
100111101110010011101001000011101110000100000111010010110010000100011000111000001010100100110001001
01000110111010100101101011101001001010000100011100110110001101100110101100100111000110010110011000
0111000011000111001100101100111000111010101101110110110010000011001100110001001100110101000001001
011110000100111100010000010010110010110010111011010000101011101010110010110010111101000000
1001111100110011000000010011001100110110101111010001010110111010000110011100011110101000
10011010100010000001100010001001110101110100111011001101101000100110110001001101010001111010111
10000101011100001111010110000110001111001101001110110011001100100010001010011100001001101101011
01000101011100001111010110000110001111001101001110110011001100100010001010011100001001101101011
10000101011100001001100110011001100001101001101001000001110111010000110101101000011010100011101011
1000010101110000100110011001100110001100110011001100110011001100110011001100110011001100110011001
1010011101001
0100011000011001
011101001
1001000110000011100000101000110011001100110011001100110011001100110011001100110011001100110011001
11011000011001110110101100110111000110100001001011010000110101000110101010100011000100010001000
1000111010000001100000011000011001111000110001110101001011010001011010001000110000101100010111110111
110101101101011100010111111100011101100101011100101010000111110001100111011101001011101010101
1000000110100011100000000110001101111101000100110100100101000110101110011010111001100110010000111
101010001011101000011010011100011010010101010001110100001001100011111000011000011000010001101100
0110000101110011010010110100010010001100101111000111010011000100110000110110101100000101110101
01011000010010011000011100110001111011100011011101101011100011101010011011010001001011010000010
0111110001100011010001100101001010000010101001100001100101101001010100111000110001100011101000111
100110001110011011010010111001011100111011010111010001101101000110110110001101101100110011001
1011011101010001110110011011100011000110011010111011001110110110011101100110111001101001101001
1011011011010111000101111110001110110010101100101010000111110001100111011101001011101010101
1000000110100011100000000110001101111101000100110100100101000110101110011010111001100110010000111
1010100010111010000110100111000110100110101010001110100001001100011111000011000011000010001101100
0110000101110011010010110100010010001100101111000111010011000100110000110110101100000101110101
01011000010010011000011100110001111011100011011101101011100011101010011011010001001011010000010
0111110001100011010001100101001010000010101001100001100101101001010100111000110001100011101000111
1001100011100110110100101110010111001110110101110110011011101100110111001001010110110010011010
101101110110010001100111001100110011101101010101100110011100110110101110010011010111000011010110
1010100100101010000010011011011101101101000100100100100011000101010001001011011011000000101100000
010001110100100100011100110010010100010011101111010000010100110100111111000001110010111110001001010
100101101011100011101000110100111100010010101010001110100001010111100001010110110000001100001010101
011101110101110011100000100101101011101101101101010111001100110011000011001110001110001100010110
010101110110100000110111101100000101000101001100001001011100100101010001101101000001001011010011100
10010010011001110100111101011100011110001110000100000101000100101101010111100100001110010000111001
0110011111101000010010111011000101110010100000001110111000011001110111000010110001101100111
10000010110101010000111001000101010001001011101001110011001100110011001100110011001100110011001
11000110110110011011011100110010101111101110011001001001110100001110101011101001010110100101010
010110000111001110111011010001110000011100001101100101101000110110001000100111101111100110111
111010001011110101000011001110010001010011010101110011000100101110101110011101011100010110000100
011101001000111101100111011100110011001110011001100111011001100110011001100110011001100110011001
1010010111110110110101110010011100110111101000000100101100111101010000110110000110110001101100111
1000001011010101000011001010010100001001011101001110011001100110011001100110011001100110011001
11000110110110011011010111001100101011111011100110010010011101000011101010111010010100101010
010110000111001110111011010001110000011100001101100101101000110110001000100111101111100110111
1110100010111101010000110011100100010100111010101110011000100101110110100111101101001110000100
01110100100011110110011101110011001110011001110110011001110110011001110011001110011001110011001
1000011111010011111000001100110000110110001111100010010001101110100110001001101001011101001011010
110000111000011101101011010100000100110100110101010000010011010101000001111101001110010011001001
000100111101011001111000011101001100011111001000101011001101110110011110100111101001110101101100

111011001110110111000100010101110110011011000001101011011100010101001010110110110011010000101011
011001001010010100110000010100101010111001010100100110011001101000011111101110010100111100000
010100000111101010011000101111010111110011001101001001010000000110111100010111000110010000001011
111101001000110101010100110001000110010001000011101110110101010111001001001011010101001001001101
1100101111001011110010001100101111001101010000001000011110001110111001110001101010110010010100
10100101011010011100110011001100100001100100001100111001011000010000101100010010110111011100100010
0101110101001110101101010100010101000101001110110101001001011010010011100100011011000000101101010010
10011011110011000101010101010101010011110110000111001010110001011011001110011110011001011010000
10110100101011100111111001111101000110100001101100011011011010101101111100111010110011010011
001110101110110001010011011011001011011011101100111001110011100100110010110110011001100110011
1100101000111110101110101000000100011110111101100010001000110001010110100100001101000110110010101
011011001000011100100111101101110010111001001011011000101110110011011100010000010100110011000010
110011001011100000101011100100001000100001100110011011000111001001100011001011100101110011001100101
011111000101110000010101110010000100010000110011001101100011100100111001011100101110011001100101
01111100001010110011001101101101101000010101110010110000010001001011001011001011001011011100
1011000010101100001111000110110010101100101011011100100101111100101101001100001101001011011100
010111000010110010010101000111001110010001000100011100111011101101101000011001100011011101011000000
10011100001111010100100011011110111010100001100110101000101101010000100110111101100000010011110100
0001110100000101001110001111001000110010011100011000110110100101001000101011011011100000010011110100
11001011101110010011110001111001000110010011100011000110110111010010100100010101101011011111100
0100110001100101001111001101010001101010000110100001011010100101000101110100111011100011001000
00101110111101100010011000110001100011100001001101110100111100100111010000101000010100010010
101001001010010101011100010011010011111001110000101100000110100110110100111001001110100001010010
010010100011010001000011100111101100110111011001101110110100111011010011101001110100110110101
100000111100001110001110010000001011101010001110011010011001101110100111010011100000110000010
0100000101110111001010110100011000101110100101100100100100101101100011011101010101110111000011
10110010100011000000100100000111100100111110001001010001100100011101101101100111100001110101100
110011100101101101000001000011100110011001001100011100100110011001110110100000101111000111011011
1010011011011010010010010000010100110101010010010011011000101100111011001110011100111001100100
1010101101101101001001001001001101010100100110110011101100111011001111001110011100111001100100
01000110100011000101001001001001001101101100110011010110011001100110011100111001110011100100
1011010001100010010010010010011011011001100110011001100110011001100110011001100110011001100100
1011010001100100
0011101011001011011110110011000101000100111100100110001001110010111101001011010011101001111010
10001010001101011010110001110101100111000110010010010010011001001100010011010000110010110110101001
00100111000110011001111101000111100010011100110011001101110100110010001110100110100110100110000011001
11100010001001011100001101011101010011001011011000010010001100101100110100001111000111110011101
110111010001110010011011100011101001110011101100010101100001100111100001101011101100001101001100010
001000011111010001011101110110011000011100001110001110011100011001101110000011001001001110011101
10011101011000110110000000110101000111001000110011110100010011110100011001110100110011001100110101
11111100010100101101001111101010100101011110111110100011001100010011111001111001010111101010
000101111100101100111011001101100100110111000100101100101011110010000111010111101111011000010
0100011100011011101001110110011001010101100111000111000110011100111001101011010110101100000010001
01011111010110000011000010100011100101111101011110010011110011010110101100001000111001111110
011100100110101001001000110010100001000100101110100011110001010011101101001010110100010101001
10100000010100110001011110111001101101110011001001001001110100001110000001001011001011010
1000010010110011001000111000101000011100101110010111001000010011110010111010000101011101011
11101001111000111000011010010010011010011111010001110100011001110010111010001100110101010
1001010101100001011000110111001011100011111010011111001100001111110110100011101011000011101101
011001100101100011011000100101110101101100110011001100110011101001000101100100101010010100101
11100001111010100100001001101100010110100001000100111100011011101011111010001001001001101001
001001111010100101111010100010010011100110001010010110100101100101100101100101100101100100101
11100001110011010011010000110001001101101011010011101110110110010110011100110011000100100
00100110100111010001110001011011000111001100101000101010100001110000000111101001110001000101001
111010111010110100010011110110110101010010110111001011100011001010110111000111001110011001000
10100100111010001001100100001011000001010000101110010111011010110101010101101110001100110001100
00111010100010011101001110100111010011101001011011001110011001100111010111101101010000101
10100100110101000100110010000101001110011001101100101101100111001100111010111011011000100100110
00111010110101001001110100111010011101001110100111010011101001110100111101011110101010000101
11101011101010010011101001110100111010011101001110100111010011101001110100111010011101001100100
0010011010011101000111000101101100011100110010100010101010000111000000011101001110001000101001
11101011101011010001001111011011010101001011011100111000110010101110001100101110001110011001000
10100100111010001001100100001010000010110000101110010111011010110101010101011010111000110001100
0011101010001001110100100111010011101001110100111010011101001110100111101011110101010000101
10100100111010001001100100001010011100110011010101100111001100111010111101011101011000100100110
0011101011010100010011101001110100111010011101001110100111010011101001110100111010011101001100100
1110000111001101001101000011000100110110101101001110111011011001010110011100110011000100100
0010011010011101000111000101101100011100110010100010101010000111000000011101001110001000101001
11101011101011010001001111011011010101001011011100111000110010101110001100101110001110011001000
10100100111010001001100100001010000101100001011100101110110101101010101010101101011000110000110
00111010100010011101001001110100111010011101001110100111010011101001110100111010011101001100100
1010010011101000100110010000101000010110000101110010111011010110101010101011010111000110001100
0011101011010100010011101001110100111010011101001110100111010011101001110100111010011101001100100
111010111010110100010011110110110101010010110111001110011001100111010111010110001110110101000
1010010011101000100110010000101000010110000101110010111011010110101010101010101101011000110000110
00111010100010011101010110100100001010011101111101010001011101010001011010010100101001010000

110010111110100001001100100011101010111101010011011100101010010010010110011001000110010011011110110
1111001010111010111100101110110110110011010000001100010001000010111100110010010100000001010000010010
11101111011000000110001000100001010111001101101000011111010011111100000100101011010001010101101101
010001010100000100100111000101010001100011101100111111100001010110101101100011011100101001010110000
110011100001010110001010000101011110011110110110101100011100110000101100001011000010001111100100110011
011011100001110011100010000101010000110101001101001101101111100110011001100111111101000110010010101
01110110001100111101001101001100100011101101001111011110110000101011000100101000010001111011010100
1100111100101011101100110000100011100110101111010001110100001110000000110001000100000111001110110000
100100000111001111011000001000001110010011100001011100010010101000011101111001000001111000011001100
10110010101100110010110011001100011000110101111010101100110011011001100111000110010001100111011001110
001011010010101111001110001011100000111100001110011010111010111111101001011010110010011010100111001
0110000100010001001010110111011100010111000000010001110100110111000111001001001011111001010011101100
10110000101100100100111100110101010110100100011010101100110010101100100100101111001010011101100001
0001001000110011101100010000100101000000110100110110111000110111110001100111000010010001001010101101100001
0000111000010010001100011110110001101010111000000110111011010001010011111110000111001000110010111
101100110111011110000111101010001000111010110000101110101000111011110010101100001100000100101001000
11110110010101101001110100100011110001110101000010011101001000101010111010111101011101011010001110
101100101010011101100111101010001000100100001110011101001111010011101100111101001111010011001011
1001100001001001111101011100010010000110110101101000100101011001000101110000101000001001100101110011
1001001010001000010111010111110100010111000001110011101000011110100100110111110010001100000001010
0100011100001000110010111011001000111110101111100111110100001001001100110001010011101001000110010001100
011111010000100110001001000110110110001111010100010101001000101001000101100110001010011100010110001
1010100001100111011010101010011111010001110110100100100101000010110001100101000100110011010001111
10111001011111001110001101110010000101010100000111000110000110100110111010010110010000011011101000
0111101011111001110001101111001000010101010000011000110000110100110111010010110010000011011101000
10111010010011010011110111011001001110110010001010110001010011001010011001101001111011001110110010
1011100001111010111000001101000011000111001001110011000100011010111101101100101101001001011110111
1010100100000110101010000011000110010001110011001111010001010111000100110111000000010100110101110
1000001000111110100100100010010111110110101001001010010010110100011100001000011011000101100011000
101101111100100100110000101011101100110011001101101100110100011101010000001000010110000010
011100110111110011001000110100010001101011100101011011011011101101000010010000100010100111
1101100011101001110011011101100101001010111100010000100011010111000000010011000011111010110001
1001110011000101011101011000111101011000011101001110100011010011010111000101100010110001010110
10110110001001001000011111000111100001100111011001110110001101100011011000111011101001110001
1000001010000110011001100100000101101010100010100101110011101101000010101011101101110111100101
11110110011110000010011110010110001001111110100010101001101001101001101001111001100010010111100
011001100110101101101101101101101100100001010010000101001101001101001101010101010101010110011000110
1110110010010101011100010101110101101001111001011011001101100100110010011100100110010101101001
1111101001000100011011000101001101011100010110010000101101010000101101010001011111101011110000000
10110010100001001101010011101110100000101110101010110110011011001011001011001001111001000100100
001001111001101011000111101001110000011010111000001010100000100000011000001101001001001110110100011
10110111100011000110000101111100100011011001000110001110011100110010110100111010110111100010011010
000110000001100011011000011001111001011111101000010110100111000110101111001101000011110110001001
10101011100111010100000101011001010111101110001110000101001000101001000101110101100010010111000
11110110011100100010001001101101110100110000010010001100100010110010101110001100010011001011000
0111001100101001001010111001010110010011101000010000110011110111000111001100011001101011110
10000100111001110001000000010010011000000101001111100101010100110100100110110010000111000010101
101001111000100101011001000110100100111001110110010011001001100110011000101111000011011000010110011
10110001100000010100110010010101110000101001110100011101000011001110111000011010000010100011001001
101110000101100011001010001110010101011011101110001001010000101111011010101110111000110010101
10100110100001101100000110000111010111110010011001100111010111011001100110000001111000111100010101
110101101011100010110010011011101100101100111000101100110011101100110101100010111100111100010110
100110100110110001000101011011100110000010010110110000000011000101100001001100101100011110010110
1110110100101001010110111001010111001001100100111010000101011000101011000101011100110011110110101
1000110110011000101001101010000010001110010011100100110011001100111011001111000000101100011110001010
0011011110110110011001101010100000110110011001011110011000100011110011000000111101101110110010000000
100001101010010110001000011101011001100110011100100011000111110001111001011110110111110100011101000
0100100001101001101001000101110110011000100111101110001111001000010011010100000000111010110000011
1000101110100000100000100111010010000001011011001101100110110011110110011011001000001001111010000001001
11100111010100001001100100110110001110110100011101101000111001100111001010110001011100010110011100
10010100011011000101110101110011000001001101101000000011100010110000101110110110110100101011001
111001010110010101000100110101011000000110111001100000111000100001100110011010100110010001110001
011110110110000110000000111010001011110010111011001101100110100000111100101100011100000001010
0101011010111010000101100100010100100110100100111100001001010101100000000111001100010000111111
100110101010101101110010011000100101110110001001100011000101100011100010011011100001011000
0011100011010111110101110101001011100010110001011000000101001101001110101101011100010001010101
0111111100100011001001101000001110111001011101100110100000111000111000110011100011010101001
1110100110010010101000100110101011000000110111001100000111000100001100110011010100110010001110001
111010010001010001101110010111001001111001100110011110001001111001100000011110110111011001001000000

1100110001010011010011000000101110011011101111001011101100100011100110100011011011011001100110111
0011110111001110101110001011001001000110001110101010111010100100001010000100001010110000001011011101
1001110001110010010011000000010110111100010110110010010010001100100000110110001110000010101010101111
1011101110110010001110111100000011000001011000000101100111100010001000011110000111010000001100111011
001111000010001110111100100000111001011010100000101111001100001000110101101000001000100011001110
11010000010100001011111000010000111110110011011100011011001100010001101101110011000100010000001101
011001001001110001100011110000110110110011101100110111000110010011010011100101000010110100011011110
110000001011100011000001110100001011000111000110010111001100101110110001101010011010101110100110100
000001010101110011101011101101101101000111011011000111110011000100111100001101001100001101001100
10110011001111000100010101000011100101010111110101010000010010100101101010110101010101101011100101
01101101100101000001011001111000011001011011010000101001000010010111011110101000111010000010101110
00101100001110110100011010111000010001101110000100101101110000100101001011010101010101101011100101
001011011001010000010101001111000011001011011000010010110111011000111101101000111010000010101110
0010110000001010010001111110110110001101100011011101100011110110100011011101011010011010000110000
001011001000000100010011100000011000010001101110001111011010001101110101101001101000110000110000
01000101110011111000000110001011101010001001010010001001100110101000110110001110011110101001001011
0101010000000010101010110000011100110100101011101110000001010100111000001110110010101000010110100
00100011001111100111001011100100110100010000100011001100110110100010001100110110100001101010110100
101111001000101101110110101001110110011110101010101011010100001110110100001011010011000010011101
1010110011000101101011101010100100111101001010111010100100111110010111010011011101100100100
0000101110110100111001001001101010100001001001101100001001001110110000100100100111110100000100100111010
001101100011100010010011011001100000110111101000110101100100011011110000101011001100011000010101111
11001010011101110011100000110111110100011010110010001101111000010101100111001000110000101011111
01101000010010001010101100100110111000010110001000110010010110011001100111010001010010101100
10010100101110010001101000001001100110011010000100011011001001101100100111000001110011111000110
010000000110101001011100111011
10011011111001101111000110101011110010101110011000110110100100100110110100110101101101100111000
10100011110001100101110111000111011001001000100110100000100001101010010010011011010011011000
1010001110001100101110110001110110010010001001101000001000011010100100100110110100110110001100100
00000010010011000001110100100100101011011001100100000100110110110000000100101000110110
1011110011100101010101101011001010110110110010101110100011011001001101100101011101010110000100
10110011111011000001101100100110100100110100100100000011101010111100101111001011101001100011000010
001101100011111101000101000001101110101100011011000000101110001011011011010000010101110111101101
000011001110001111010011100011011010111010101110101101101101101101101101101101101101101100
101000111000110011100101110110011011100100110110011011001000110100000101000011001100011010110011
010100111001101100010100000011001101100100010111010010110010011011010011101001101001010010011
11001101001101110101000011100000101101000011101110001100011001101001101010010011011000110100100100
0110101101011100011011001110010011110010111010101101011010010101100001100110000001100010101001110
1100110010101100101010001110110101101100100100110110011100111001100011100100001011100101101100
010100110111001101010100111001010000110001110100011001000101110000111101001001100011010010001011011
110001000011011001001101110011110101011100101001010000011100101000100001110000110001101000011001
10010101000001010000001100111100101011010010110000101110011001110011001100011000100100001101000001
10111100100101011000011011111011001000100110001101101011011101000001110001000010100101101101100
101011000001001100011011010100101000110110001010011100100111000011101100000100111000001011011000011111
0010011101100111011010110111100000001110010100011011000001001110010011110101110011001100011
1110001110011100011010011000100001101010000101100010100001100110000111011010001011011000000101010
001110010011100110010010001011011100001101100011011000110110001011010000100010011010010101
1100111001011001001000101101110000011011000110110001110101100010111001010110100001000100110010101
011101010101100110101110010010100010010101100101001100011100000111010101110101001100001110111011000
10100011110000101011000101000111110111001000110001100001001000101001011011111011010101101011001010
1011101000001101100011101011110011001011101011110000101010010001111001110010101101101001011111
10101000101010010110010001111011010000011111010001100100111101001000110000001011101011111010
0000011010000010010011011101101010101000110101110010101100011011010010100111011110001000110100101
110111010011110110110110100001110010111100100011000010110000100011100001110000100010001101101
1001011000010101100001100110110110010001000110111101001000010111011001000001011001110000100100111101101
0010010000100010010110101110010110101100110110010100110111000010110000000111100100101001000101
1101010110111101010010101010101101110000100011110010000101110101010000110101000011000100011010
0010101001001111011010110110110001110100011100001101000110000111010110011101100111011001101110
10000101101000010111001111011100001110100001011001010111011110111011010010001011111101110011100111
0010011010011010010111001110010001100101001000100011011110001001101101110101000100001000111010010
0000100111100001100110100100101000010110111001010011100100000000101100101110101001001110011101000
1110010101101001101000100111011001111010100010001000100001000111000011101001101100110110011001010
00010101100101001100011100010000011011100100000001010101011001011001110100011101000110110011001010
10010011110111001010000000101010001110010011101001111010101110101110101110010111000111101001101
01100010100010100101011000000110001100110111011001011000110111100011000110110110001000101100
110111001001100111100101001001000100001101000010110001110011101011101011110100011001001110001
1001101000010010000110011011011000100001110010100001010011111010010001001010110100000001101
100100000101110010011001110100100101011101110010010111011011001000100101010110111011001111011001
1101001000110110100000100100110111010001110001100101011000110001101011000011011111101101101010
00100001001000110000110000110011011000011100011001010110001100011001101111101100110011001100101
111111000001110000101100001011000011001100110011001100110110111101011110110001100100100101001
11111100000111000010110000101100001100110011001100110011011101011110110001100110011001101001

000011011000111011110010000111011000001001001001100101010110001001001110010111000010010000011101010
01101011110111000101001000101011010011101101010111101100010001001001010110101011000010100001
100011100000111000011010000101011101101110110110011101110010000011000010100111010001011010111
110100011110010110100011111000011010000010010001010110011001110001010001110001011100100010110001110
00111110000000100010110100101001011000100000001001111101010001001001101100110011101110000000011010
1010001011100100010001011101000010001011000100001000100010011100110001000010110010101101011010110001
000000010001011010101011101101110100100100001000111101101110001110100000100110000101110000100010
11100100100110111001100111011110000111111010010111000000001101001100010011001101100101011100101
110100100010011000101010001110111100110000100101100101001010010000100100011001000101110100111100010
10011011000101010010011111101011101100011100111000101111010010000111000011011010011110100011101000001
101110011111011000111001101000011001001000101010101001100011100110100110001101100011010110001010000
001001010101110100011100110001110100100101010101101111110100001100001001010100110111000011111010
000111010101000110010011100100001010100011010001101011101101100001000111010111110100000110001
11000100100111000100011100010001110100010010110000010011100100001001101011110100000110001
0101110111100101000001000010101111011010100010000111011001100110110001111110011110100010101011
001100001010110111001101001110111011001001111010011100110011011001100001100110111000100101
10100010101111010001001101001010111010001010011011101011011101100000011111101011100110011000
00100001001101000100110001100111000110011000111100111100110100001111001101000011011010000110
01000010001010011011101101110110011011000011010000010010001011101001001001111100111110100110
00100001101000101010000010011110111010011110000110110111100110100010111000110111001100000
00010010011110111001001110100100001101110000100000111010010110010000100011000111000001010100100110
0010010100011011101010010110101110100100101000010001110011011000110110011010101100100111000110010110
011000011100010110001110011001110001110101010110111011000000110011001100010011001101010100100
0010010111000011001110001000001001010011011001100101110110000101011010000101011010011001101101110
0000001001111100110011000000010011001100110110101111010001010110110100001101001001110011100011110
101000100110101000100000011000100010011101011110100111011001101101000100110111000100111010100011110
10110010011010011110010010010100010010010101110110011101011011011010010010000010011000001010111
1010010011010011110010010010100010011000110010101011011101101011101011011100101001011001101000
10010101111001100001110011100100011010001001011101110010100011100111010101110010100010111010100101
110101100001100100000110000010101000110110001111110010010011110001101001100000000111000011011
11100101101010000110001110101100001100011101001101101110100110110100010011101010011101000111010
1100010110101100010100110011001100001101001101001000001101111010000110101110100001101011001001
1101101010011101110000101011110010011000100000001100101100111001000100101011010100010101100101
1100010111010111100011101001011101100001101011010000011010101110100000111101000001001100010010110
101000111001100010011100001101110011011101001001011001100111000100111011001101010010011101000001110
01010110101000100111011001101110010100110001001010100011101010111011001100110010111110001100101010
0101100001010100110111010101011101011100010101100101011001001011001111001001011010111101010011101
111000011000000110010101100100011110001000010101011001100001111011000101001011010100011001011101101
1100000001100010101111011010100110001101001000101000101011001100100001011111100010000111010110
01000110001101100100110011111001001101101110100110010011000101011110100011001110000001101101011
01011001000110000110011001010100010101011101110101001101101110100110101100101100010010111010001
11110010011110100010001000111010001101011110100100010001001100010011010010110001011001100101100011
10100110010111001001110101011100011101001000101100011100111101011000001000000101111110100000101
11100110000111011000001001000011110000101000010101100101000110011011100010110111000100100101
011000100010111000110101010001011100011011100111000000010110001001000010001011101011101010110010
00100110000110100010101000011010001001011111010010011101010001110111011000101101100111000101
011011010110100100011000001100000100101000110101110110110011110101110100111010011101001110100110000
1110101101100000010111000100101010111011011001110010010101100111010011001011101011000111001100010
01010110010001100000111000001010001100100000110101011001001011101010111011001100111010111110011010
0101001101100001100111011010110011100011010000100101101000010101000010101000110101010100011000100010
00100010001110100000011000000110001100111000110011101010100101101000100010001001100000101100101111
11011110101101010111000101111110001111011001010111001010100001111000110011101110100101110101
010101100000011010001110000000011000110111110100010011010010010100011010111100011010111001100100010
000111101010001011101000110100111000101110001010101010001110100001001100011110000111000010001
1011000110000101111001101001011010001001000100010111000111011100110011001100000111011011010101000
010111010110000100100110000111100110001101110110011100110110011100011101010011011010001001011010
0000100111110001100011010001100101001010000010101010011000011001011010010101100111000110001100011101
00011110011000111001101010010111001011100111011010111011001101110110111011001101011011001010110010
0110101011011101100100011100111001100101110110101011001100100110110010111010111001011100011010
110110101010010010101000001001101101110110110100010010010100100011000101010001001011011011000000101
100000010001110100100100011100110010010000100111011101000001010011010011111100000111001011110001
0010101001011010111000111010001101001111111010010001010101010111100001010110100000011000000101
1001010111011010111001100000100101010110111011101101101100110011001100110011001100001100111100001100
010110010101110110100000110111101100000101000101001100001001011001001010001101101000001001011010
0111001001001001100111010011110101101111100011110001110001010000010100010010110101011110010001
11100101001111110100001001010111011100010111001010000000111101100001101110000101101000010110100011101
10011110000001011010101010011100100100100100010010111010011110011001110011001100100110010010110
0101001100011011011001101010111101100100101111101110011001001001110100011010101110100110011001001
1010100101100001110011101101000111000001100001111000110110010011011000011011000100000100111101111
10011011101000101101110101000010110011100100010100110110101100011001100110011001100110100111101
0001000110100100011101010001011101010001011001100100110110101110001100110011001100110011010011110
00010001101001000111011001110111011001100110011011011001100110011001100110011001100110011001100110011
111100110100101111011011010111001001110011011110100000010011001110101000001110100011011100000
11100010111010101101010011110111101001101001100011101101101000111010111010111000110000110010
01110011000011111001011110000011100100011001100011100010010001011101001100111010010011010011101001
0111011000011111001011110000011100100011011000111011000111100010010001011101001100010011101001
0111011101000101101110101000010110011001000101001101101011100011001100110011001100110011010011110
00010001101001000111011001111011001110011001100110110110110011001100110011001100110011001100110011
111100110100101111011011010111001001110011011110100000010011001110101000001110100011011100000
11100010111010101101100111101111010011010011000111011011010001110101000111010111000110000110010
0111001100001111100101111100000111001000110110001110110001001000101110100110011101001100010011101001
01110110000111011010110111011010001110000011000110110011011000111100010011001100110011001100110011
1001001110100010110111010100001011001110010001010011011010110001100110011001100110011001100110011
000100011010010001111011001111011001100110011011011001100110011001100110011001100110011001100110011
111100110100101111011011010111001001110011011110100000010011001110101000001110100011011100000
11100010111010101101100111101111010011010011000111011011010001110101000111010111000110000110010
0111001100001111100101111100000111001000110110001101100011100010010001011101001100010011101001
0111011000011100001110111010100000101010001010100000101000110101000111010000011111010011100010010101
10010010001001111010110011110000111010011111001001101100110011001100110011001100110011001100110011

110110010100100110000011001111010001011000100101100111001110010111000110101001011100100111000010001
000100010011010010110001010100010111001101001100011101000011100001100010100111000010000011011000100
11011001000011010000010011110110111110100011110011011100001010110001110000000101011000111100101001
101011000000110001101101111001011101111000110010000100011110110010111100111110010001011011100
111110110010011010111011000101001001101100101001110011101110110100001010100001011111000011001101
100100110001111000111000011000101000110110011101111101111001100111001000010001011101110000
10110000101000101100100011010011001111100011010110010010000110011111011010000010110011011010010011
0011001110001101110100010010111111001000010100101110100011110010000001011101110000000011001100
11111110111110111010010100011100000000110111011111000111100101101110001100011100101000101010011
101101010101010011001101101011010011011101000011010110110101000100001110000011011001110100100011001
001001010011010101001011001001010010010100010100100001010011010000011010111001010110110100101100
11101010011011101101101010100100001110001000001101110101011001110110101101101010000111010111001
0011101011111001110001100010100101001010011101110110101010101011011111001111110101111001111001010
011011100101110100100010111101100011001100110011001000100001110011001000111001011100111100111001010
00001110010010011100100111001110011111010110010000010100011101100001011001000011110111000101101
1000101000010001100011110001011011011010101001101001001011101001000101010101110100011011011100
11101001001111010100110001110111010001110011011001110011011001100110001011011000101010001101101110
101010010101000110011011011001100100111011110111011011001100110100101001101001100011100111001110
1001010011111001100100101001110111011001011010011011011001110011001010011011000110110100110010
00001110001011101110100101100001010111011100000001100101011110001011110010010001110010100000110
10111010100100101110110100100001101110000101100001001000011001111011010100111100110101001110011001110
11100001110010010011100100111001110011111010110010000010100011101100001011001000011110111000101101
11010010111100100011010101100101100100010111101001110111000101111100110111010110010110100101110
011010010101000010110010010010001110111110101100111001001001111010111010000101110101110010100101010
1111100010011110110001110010001000110011110011011101000100010000010111001011001100110101110101111
00101010110010111100011100001011000100101010100110111010101110100001001000100010001010101111101
001101001110100011110101100101010111001110001010101000110001101100101011000101001101001101001110
10001101100100001000111010101000001001001010110100111010011000101001110101101100110110011011000
1100101011100100110011011101111010111010101001110110101110100110011101100111011110101111010111
01010000111011110011000110110011001001011000110110001001011101110110001010010001001100110001001001
01000000100100001011000100101000110101110001100101000000100101101011001101100110011101110001010
00101001011100010001001001110011011101110000011010100111010110001000100111010101111010101001
0001001011100111001011010000100111011011001110001100000010010110110001000001010111010001000001010
10110000001100001000111000101111010100001100101100101001110101011100100111100100111100001111100
1110111100001110111000011111010001101100111010010101000001010111000100010000011011110110000
000100011111000010110011111001101101110101000100110100111001100001000101001100110111001001110001
0000110011101000110010010101110010000110101100010011111100101110000010011010111000010001010
001011001011010000110100011101011100010100111001001101110011111000100111110001110111000100110010
00110000001011110110011100110000011001100001110001010010010001100011111011010110010010100100001001
01001001001110010000011000100110100001100001000111101011100001011100110011011000101011101010000
111100111011001011100001110001100100101011100000001101110100011101011000010101101001100110010101
000010001110101011111010011110100111001000000100011010111011001110111000100110101101110010011
001101000010110110110010001101001011000110110010110011110110110101110011110101100101101011000
1100011010111001110101111001100101110111000011100011001100000111001011100011100000111001001110000
0100101000110000000100110001000101111000001100011000101010111011001101101001101100110011100011
1000000100010010101110100100010001001110010111100000001100010100000010111111010111100110011001011
11101001011011101010100001100001100111010101110001011101001000101001101100011001011001001101110010
11000011000000101110101011110010000110010000110110000110011001001111000100010011010100001010111
001010101110100111100000110100111010001110001110000001110001100011100011001010101011011110
1110011100011110101010100110011110001000101000100111000101110000100111011001100000011001111011
0100111000101001110110001110000101110010010000100010101100110011111001001101110101010000010001
1110101000110000001101101010110110100111110110100001100110111011100010100111100011111011101010
1100111011110001110110010111101101100100101110000101001111010110000010000100010101100100100100110
11101011011110110100000101111010100010011100110111010011001001000110011010000110001100010001
010010010011001110110110111100100100011100001111001011101001110100111011010110011001100010001100
100010101100101011010011101101001110101001001010100011111101011101011110110111101101110110011101
10101001010010110011110101001101001101010110110011001011100110010101111010111100111001000001010010
110011101000110100101011011101000110000100011001101101111011000110011011101100011001001011110
10111101000011001011101011101111010011011101001001001111100001010110000110000100100010110000
001011110110101110001111001100011000110100001100101011101011000010110001000100001101000011011100110
111110101111011011001110111000010001011100011111000011001110010011100000110011110000001100001111
1100111011001100001011111100011011000000100100011001100101010001110111111000001100000110000010
11000111000011000011101101010011110100010101100110011100110011001101100001101100111010011001100
101011011011001010010100100001110111111100100111000000110010000101000010000101010010011011011000
11000111010101010101100101011101100001110111100111100111100111001100110110011101100110110010
0001000011010100001000001100011001010000101101001100011001110000100001110011001111010110011000011
010110010010100101111100111011010111100101101010010111100010011001000000100010000110100110000
001011001110101011010001010011101110111101000110111000011101011010001000100110011001111000
111111001100011100000111010001101011011001110110110101000000010110011001001001010111100101010
110100000010111011011011011010001011000000010111010100001011101010000100011101101001110100101100
1100110101010101010110010101001111011000011101111001111001111001110011001101001110100110110010
000100001101010000100000110001100101000010110100110001100110011000010000111001100111101011000011
010110010010100101111100111011010111100101101010010111100010011001000000100010000110100110000
001011001110101011010001010011101110111101000110111000011101011010001000100110011001111000
1111110011000111000001110100011010110110011101101101101000000010110011001001001010111100101010
1101000000101110110110110110100010110000000101110101000010111010100001000111011101001110100101100
11001101010101010101100101010011110110000111011110011110011110011100110011010011101100110110010
000100001101010000100000110001100101000010110100110001100110011000010000111001100111101011000011
010110010010100101111100111011010111100101101010010111100010011001000000100010000110100110000
001011001110101011010001010011101110111101000110111000011101011010001000100110011001111000
111111001100011100000111010001101011011001110110110101000000010110011001001001010111100101010
11010000001011101101101101101000101110000000101110101000010001110111010011110101001110100101100
110010011010000111000100011101011001110011101100111011001111001111001111001110100010101
00010001100011101101000101001110011011000010110110000100011101101100111100111001110001001001
00010001100011101101000101001110011011000010110110000100001110011001111010110001100010001000

110010111011001110110111000100010101110110011011000001101011011100010101001010110110110011010000
1010110110010010100101001100000101001010111100101010010011001100110100001111110111001010011110
111111101000001110101001100010111101011111001100110100100101000000011011110001011000110010000
00101111101001000110101010001100010001100100010000111011101101010111001001001011010100101001
0011011100101110010111001000110010111001101010000001000011100011101110011100111010110101010010
01010010100101011100111001100011001100000100111001011000011000110000101000100101101101100101
00011001011101010011101011010100010101000101001110110101001001011010010011100100011011000000101101
0100101001101111001100010110101010101101001111011000011100101011000101101001110011110011001011
010001011010010111001111100111110100011010000011011000110110110101011010111100111010110011
01001110010100011110101111010100000010001111011110110001000100011000101011010001111101000110110
0101010110110010000111001001111000111100101110010010111011000101110110011011100010000010100110011
0000101100110010110000101011100100001000100001100110011011000111001001110011010111001011100101110011
00010101111000110010011001001110110111000010101110000101011000011000011000110010101110010010110
111100101100001010110000111000110110010101100101011011001001011111001010110011000011010010101
10110110101110000101100100101010001010011100100010001000111001101110110110100001100110001101110101
100000010101110110101001010001101110110100100001100110101010001001101110110000001001
11011000001110000110010001101110000110110001100100011000010010001100100100100110110110000001001
10000111100101110110010011110001111001000110010011100011000110110110010100100010101101011011
11110001001100011001010011110011101010001110101000011010000101101010010100010111010011101110001
10010000010110101001010110100110010110111011100110001100101100111001100101101101100011011000111
00011001000011110011001011101100010001000110001100011000111100001001101110101001101000110100
01101011011001110111011000100010001100011000110001111000001001101110101001110010011101000001010
001001010100100101001010111000100110100111111011101011000110110001010110100100000001010110
10101000100100010110001001000111001111010111010111010111010111010010111010011101001100011001
101011000001111000111000100111000110110110010001001001001001001001001001001001001001001001001001
010100100110011100010011000000101110111000111011101100100010001001000100000001001110110001111001
010010010110011001100101010010001101000110101011100010100100110100010001001101110101010000001100100
011001100000111101100101110001111001011101000110001001101010011100010010010010010010010000000110
11000110000001111011001011100011001001011100110010010111001001001001001001001001001001001001001001001
100001001000000111011100101011010000110001011101001011001001001001001001001001001001001001001001001
10000111011001010001100000010010000011110010011111000100101000110010001110110101100110110000111
010110011001110010110110100000101000111001100110010010011100110011001101101101000010011010111
0010100101010110011001
0101011010001000101001001010000001000111100001001001101001001001100100100111100101111001001101
10000111101110010101101001
01100010100011011000010100010111100010111101110110001010110110001001011011000000111010100010001000
111100100100100100110001100100111011010010110001100110001001100011001100111010110101000011101010001000
011001010101110001101010100110010110100001110110100111001110011111010110101101000011101011000
1101100000111000011010011010100100010111010101001101000110101001011100000110110111101011010000110000
0111010011111010000011010010010010011010011010110010011110000101000110000101011000010101100011011000110
111110000101011110110011011101010011000001001100101100100100100111101110000101011011001101001110011
1011000110101011011100110111010110100110100100110110010010101011000101110100101110100111010011100110
00010111101010001110100011011000011011000001101000011010011110110011001101100110011000100001011100
01110011100110101000100100110000010010010001001111011101010111100111001101101011011001110110111
0010010111010110010001101011011100110000010011001100110101101110110010110110101101101011011101001110100
100001110111111100011110100100011110101101011000100101011101101001011100010001000101011100111
110001100111010001010111001001100010011011000001101100001011010100100110011100101101100110101101110
01010000101011001011100001101100110011101100011000110010010101000111011010000001001000011100110110
011101101110100010101001001110100111000000101011011001101110101000101110101000101110010000111010101100010
0100111011101011001011101111011001100010010001001111001001100010011110010111110100101110100101101001
1110101000101000110101101011010110001011100010100111100011001001000001100010011010001110011010110
101001001001100011001100111110100011110001001100110011011010011001000110100110010001101001101001000
011001111000100010010111000001101011101010011001011101100000100100011001011001101000011111000111110
011101110111010001110010011011100011100111011000110110000110011110000111010111011000011101011101001
1000100010000111110100010111011101100110001110000110100111001110011001101101100000110010011011011000001110
111101100111001001101010010010001100101000010001001011101000011100010100111011010010110100010
101001101000000101001100010111101110011011101110011001001010011011100000111000000110001011011001
01101010000101111001011001110110011011100110011001100110011001100110011001100110011001100110011001100110011001
1011011111110001010010110100111110101010010101111011111010000110011000100111110011110010101111
101010000101111001011001110110011011011001001101110001001010111100010010101111001000011101011110111
0000100100010100010111010110110110011001010101110001110001100100111000011001101011010110111000000
10000101011111010110000011000010100001110010111010111100100110110011010110101101011010110101100001100111
11110011100100110101001001010001100101000010001001011101000011100010100111011010010110100010
101001101000000101001100010111101110011011101110011001001010011011100000111000000100101011001
011010100000100101100110010001110001010100001110010111001011110010111100101111001000010010111
101011101010001000101011000110111001011100111110100111110011000011111011101000111010110001111
101101011001100101100011011000101110010111101001111100110000111111011101000111010110000111
1010101100110010110001101100010010111010110101101011001100110011010011101001000101100101001010
100101111000011110100100010111011000101010000010001001111000110111010111110100010100010010011
011001001001111010100101011101010010000100100111001100010101001011010100101101001011101010101010
0001011110000011100110100110100001100010011011010110100111011101101100101111001011110011000
10010000010011010011101000111000101101100111010110100111011101101100101100111001110011000
10100111101011101011001001001111101101010100101011101011001010111010111000110001011110001110
0110001010010011101000011010000101000010100001011000010111000101110101111000101101010110101010001010
00011000111010100010011101011101001001100001010000101101111101011110010011010110101101010001010
00011000111010100010011101011101001000011010011101111101010001011010101101010110101010001010
000110001110101000100111010111010010000110100111101010001011101000101110100010110100101001010

0101110101001101101000010011101111001110101101011100110011010011001101011011001110111101001111011010
1010101001111100011011011011010101000011000010100100110000001011101100110010110010001101001101010111
01001101101111011011110000111001100000111000011100010001000001101101110100111011011000001110100100
111111011011101101000011011110111100001111001011100110011000100011011011011101110011011011011001101
101111110111110101100111011010010100111011110101111010111101101100110101110011000100001110111110100
10100011100110110111011110011001110011010110110110011001101100110000010001110011010110111001101011001001
010111110101110010101010100001110001010011011100110111100100110111000001111001001110110001110011
1010001101100100100001001100010000111100000000110011011111010010101011011001100100011010101000011
0100010100111010101110100011011110000101011101001001100011010100111011011100110111010001011000011
1010110010011100101011111010000101110000100101110100010010110111110000111100100001100001010110111
0100100011000001001110000100101111001101101110101010110011100001001010101100100111001010011101011
111110110100110001011100001100111000101101101010100110100000010111100111101101010110010001111000000
101111000010101010111001001100011011110101011100101111001010001001001111011000010100000101111001
11000011100110110000011010000110110110011101100111001100110011001110110010101101101100100010111011001
10110100010000011010111101110101000010010101110111000100110011001001110000000110000001011101010
100110011110101001000011001011000100010001101100001011000011001110001100010011001110011001000111011
010010111010100000101110100101100111010100010111010110010000011100100001001111100000010010001100
1111101111011011001110011001110011001110011001110011001100110011001110011001100111001100110011101
0011011110111010110010001100010001001100010011110011000000110111010001011011011000000110000001011
0011101111001011101010111101100001000101100001011100100100011001111011100110101101100110001011001
0100011100111001001100001100001110100110100011100000010001000001101100100100011100000110000110011
111110101101100110011001100110110011100110011001100110011001100110011001100110011001100110011001
00111110001100000100011011000101101111001100110011001100111001100011100111000111110101100011
01000011011001001000101011010010100100110110101110011100011001001110110011010010100011001001001101
001101000100011101001110001100110100110011001100110011001100110011001100110011001100110011001101
1000001101000011101010000111011101010011101101000101100110011001100110011001100110011100100011001000
1100000000110000101100111100000000110011101100101101000011011101010010010011110100110110101100100100
001010111011001010111011111011101110110001110000101010001010100010100111011101001000011001100111000
101010001011101110010001000100000111001111011100010110011100010010110011100010110011010111110010
00010010110111001100110011101100100111011010011001100110011001100110011001100110011001100110011001
1010101000110011010000100011011001110110110001010101100110011001100110011001100110011001100110011001
10101010001100110100001000110110011101101100110011001100110011001100110011001100110011001100110011001
1110101001001100110011100110110011011001101100111001100110011001100110011001100110011001100110011001
010001011010001001111010111001101110011011001110011001100110011001100110011001100110011001100110011001
010001011010001001110101111001100111001101100110011001100110011001100110011001100110011001100110011001
100011010001000111101001
010001001101000001001110010011101100010010111001010100011110101010001011001101110000011010101100
01011011111001101001
1111001010110010011101101000110111010000110111010001110101010001111011001101100110011111010111
10100101011000011000100101111010101101001100110011001100110011001100110011001100110011001100110011001
100001100011010111110011010101000100101110011010001101001001110010110111001101011110011001011011
0010000000100001101001111110111100101011110000000010110010111100101010001010110010010010111011010
001110100010011110100100010110110101101101110000111001011100101111000011100001110000110011011001
1001101000010010110011101001101100110110011011001100110011001100110011001100110011001100110011001
01011100110000111000001100010011001111000101100110110111000001110001011100001110011001010110000
0110100010101110110101111001110100110011100110011001100110011001100110011001100110011001100110011001
111100100001110111011001100001010110110110111011001100110011110110011011001111110101111010111
1010010101100001100010010111101010110100110011001100110011001100110011001100110011001100110011001
1000011000110101111100110101010001001011100110100011010010011100101110111001101011110011001011011
00100000001000011010011111101111001010111100000000101100101111001010100010101100100100010111011010
001110100010011110100100010110110101101101110000111001011100101111000011100001110000110011011001
1001101000010010111001110100110110011011001101100110110011001100110011001100110011001100110011001
01011100110000111000001100010011001111000101100110110111000001110001011100001110011001010110000
011010001010111011010111100111010011001100110011001100110011001100110011001100110011001100110011001
1111010100011101110110011000010101101101101101110100110011001100110011001100110011111010111
1100101011100000001011011001100110011001100110011001100110011001100110011001100110011001100110011001
110011011100000000101101100000110110101101001101000010110110101001001011100101111011001100110101101
101001101101110010110011010001010010011110100011001100110011001100110011001100110011001100110011001
0010011000101010100011110100011001011110111001100110110011001100110011001100110011001100110011001
00010110010100011101111001100011111001100110011110011010011101010110110110110110110110110110011001
0001111111000111011101000111101100010011100100010011101100100010001111001100100111100110000100001
10010001101001101000111001011001000110010000100010110000100110110010001001100000001100000100100
11100100101000111010010101100100001001100110011001100110011001100110011001100110011001100110011001
1100110111000000001011011000000110110101101003110101101010100101101101010100100011001100110101101
10100110110111001011001101000101001001111010000111000101001101100110011001100110011001100110011001
1000011000110101111100110101010001001011100110100011010010011100101110111001101011110011001011011
00100000001000011010011111101111001010111100000000101100101111001010100010101100100100010111011010
00111010001001111010010001011011010110110111100001110010111001011110000111100001110000110011011001
100110100001001011100111010011011001101100110110011011001101100110110011011001101100110110011001
1110110110110010000111100000101011100100101001000010000101000011101111010001011011110010111
1100110111000000001011011000000110110101101003110101101010100101101101010100100011001100110101101
1010011011011100101100110100010100100111101000011100010100110111001100101011101110101011101110
00100110001010101000111101000110010111101111011100110011011001100110011001100110011001100110011001
0001011001010001110111100110001111100110011001111001011001101010110110110110110110110110011001
0001111111000111011101000111101000101101101100100010001100111101001111010011101001100001000001
10010001101001101000111001011001000110010000100010110000100110110010001001100000001100000100100
11100100101000111010010101100100001001100110011001100110011001100110011001100110011001100110011001
1011101101010100001001010010001111110110101110010101110011001111011000010001010100001100011
11010010010001111101111011101110011001100110011001100110011001100110011001100110011001100110011001
0101100111000111000110100111000111101100110111001100110011001100110011001100110011001100110011001

0010010110010111110100001001100100011101010111101010011011110010101001001001011001100100011001001101
1110110111100101011101011100101110111011010010100000011000100010000101111001100100101000000101000
001001011101111011000001100010001000010101110011011010000111110100111111000010010101101000101010
110110101000101010000010010011100010101000110001110110011111110000101011010110110001101110010100101
0110000110011100001010110010100001010111100111010110101100011100110000101100001100001000111110010
011001101110111000011100011000101000101110110011001000010000100001000110011111010001111100011100100
101010101110110001100111101001101001100100011101101001111101111011000010101100010010100001000111101
10101001100111100101010111001100001000111001101011110100011101000011100000011000100010000011100111
0110000100100000111000111011000001000001110010011100001011000100101010000111011100100000111100001
10011001011001010111011001100110011001100110011001100111101100111101100100111101100100111001101
1001110001011010010101110011100010111000001110000111001101011101011111110100101101011001001101010
011100101100001000100010010101101110111000101110000000100011101001101110001110010010010111100101001
1101100101100001001100100101110011010101010110100100011010110010110010110001000010010001001010010110
1100010001000100110011101110001000010010100000110100110011011001101100011011100010001000111010001
0010000000011100001001000110011110110011010111100000011011011101000101001111110000111001001010
010110101100110111011100001110101000100011101011000010111010100011101110010101100001100001000101
0010001110110010101101001110100100011110001110100100001001110110010010100101110101111001011010
0011101001100010010011111010111000100100001101101011010001001011001000101110000101000001001100101
1100111001001010001000010111010111110100010111000001110011110100011110100100110111110010001100000
00101001000111000010001100101110110010100011110101111001111011000010011001100010100111010010
001100011111010001001100010011000100110110110001110101100100100101001010010001001000111010010110
01100110101000011001110110101010100111110100011101101001001001010000101100011001010011001101010
0011110111001011111001110001101110010000101010100000111000110000110100110111010010110010000011011
10100001110101001001101001111011101100010011101100010010110010000010100011010011101100011010
00100011111010010010011010011110110110001001010101000001100011000111011001001100110011010011010
00100110011000100100111101011100010010010011101100110010010111010000010011101101000010110100110
0001101001100111010001110100101100100101011110100000100111011010000101101001011010010110100110
001111001011101111110001110110000100111000101010110110010011010000101100101100101100101100101
111001110100100011001110110010100100001010001101100110110010111000100110010011100100111001000011010
001000011111001000010110100000100111011011000101001110101000101110100001011101000010101101011011
10011000111011101101011011011101001100001110111011000101011100010100110010100101110111010011110
110010101110000111011011100000110100001100011100100111001100010001101011110110110010110100100101011
110111010100100000110101010000011000110010001110011100100111010000101011100001011100000010101001101
01110100000100111110100100101000100101110110110010010110110110010010110100100110000100011010001
011000101101111001001001110000101011101100110011001100110111011000111011001001110110011010110110
011000101110010010110110110110110011001100110011001100110011001100110011001100110011001100110011001
1110001111011001110010101100110011001100111100001010010100001001000010010000100100001001000010010000
01101010001101011111010001000100110110110011000001001000110010001011001001011000110001001100101
0110001110110100101001001010110111001010111001001110110000100001100111011100011100110011001101
011100111001110010100100110010111001100011011101
01011100010010101110011100100111001011100110011001100110011001100110011001100110011001100110011001
11001110110001100000101001100100101011100001010011010100011101000011001110111000011010000010100011
0010011011100001011000110010100011100101010110101111011100010010100001011111011010111011100011
001010100110100001011000001100001110101111100101100110011001100110011001100110011001100110011001
01010111010110101110001011100101110001011101101000100110001001000100100100010010010001001001001001
0111011010111010110001100100010110101010111101011011000001010010110000100010100010001000110011001
0000101101010111000110001100110110110011101
1010111000110110011000101001101010000010000000111100100110011001100110011001100110011001100110011001
10101000110111101101100110011001010000001101001100101110011001100110011001100110011001100110011001
00000010000110101001011000100001110101100110011001100110011001111100011100101110110111110100011
10100001001000011010011010100100010111011001100010011101110001111100100001001101010000000111010110
000111000101110100000100000100111010010000001101101100110111001101110011001100110011001100110011001
0010011100111101101000011001101100110011101100001100110110011011100110111001100110011001100110011001
011100100101000110110001011101011100110000010011011011000000011100010110000101110110110110110100101
01100111100101011001010001010011010101101000001101110011000000110001000011000110011010100110010001
11000101110110110001100000011101000111011100011011000011001101110000110100000101000110100011001
0010011011100001011000110010100011100101010110101111011100010010100001011111011010111011100011
001010100110100001011000001100001110101111100101100110011001100110011001100110011001100110011001
0001010101011010111010000101100100010100100110110010011001100110011001100110011001100110011001
111111100110101010101101110111000100110001001011101100010011000110001100010011000100110110000
101100000111001110101111010101110101001011100010110001011000000101001101001110101101011100010001
010110111110111110001000110011010110000011010011001100110011001100110011001100110011001100110011001
010110011011111011001100110011010100000011010011001100110011001100110011001100110011001100110011001
1100010111011011000110000001110100011101100110111001101100110110000011100101100111000100110000
0001010101011010111010000101100100010100100110110000100110101100000001110000000111001100110000

00101111001100010100110100110000001011100110110111001011101100100011110011010001101101101011001100
11011100111101110011101011100010110010010001100011101010111010100100001010000100001010110000001011
011101100111000111001001001100000001011011100010110110010010010001100100000110110001110000010101010
10111100111011101100100011101111000000110000101100000010110011100010001000011110000111010000001100
11101100111100001000111011110010000111100101010000001011100110001000110101101100000100100011
00111011010000010100001011110001100001111101100100111101000111011011100110001001010010100010000
0011010110010010011100011000111100001101101100111011001101110001100100110100111001010000101101000110
11111011000000101110001100000111010000101100011000110010111001100101110110001101010011010101110100
110100000001010101110011101011101101110100011101101000111110011000100111100001101001100001101
001100101100110011110001000101010000111001011010111010100001001010100001001010100010101100011011010111
100101011011011001010000011011001101000110010110110100001010010000100101110111101010001110100000010
101110001011000011101101000110101110000010001110111000010010111000011110000100011010010111100110100
000010111110000000101001000111111011011100011011001010100101101001001001000110010011010100001011
00010000110110010000000101110000001100001000110100101100010011000100111111100100100101011110010
0111010000001010011011110100100000110010110000110011101110001111011010001101110101101001101000
01100000100010111001111100000011000101110101000100101001000100110011010100011011000111010100
100101101010100000000101010111000001100110100101101110111000000101010011100000111011001010100001
0110010001000101110010110010110001010001000110011011000000101010011100000111011001010100001
11101001011100100010110111011010100111011001111010101010101101010000111011010000101101001100001
001110110101100010001011010111010101001001111010010101110101001001111100101110100111110110
010010000001011011010010011100100101010010010000100100111000001010011010011111100000010010010
01110100011100101001110111001110000011011111010001101011001000110111100001010111001000110000101
10000111100101001110111001110000011011111010001101011001000110111100001010111001000110000101
0111110110100001001000101010110100100110111000001010001000110010010110011001110011101000101001
010110010010100101110010001101000001001100110010101000010001101100100110110010011100000111001111
100011001000000011100100111001101101110011011100110111000110110011011000110100110110110111
1101011100110111100110111100011010101111001010111001110001101100100100110110011010110110
011100010100011110001100101110101000111011001001000100110100000100001101010010010000010101
100101100100110011001111010011011010100011001100100011011000000100001101010010010000010101
110010000000010010011000001110100100100101011011001110011001000001101101101100000010010100
011011010111001110010101011011001010110110101100101011101000110110010011011001010111010101
00001001011001111011000001101100100110100101100100100000111010111100101110010111001011100101101001
1000010001111001001011000011101111101100100010011000110110110111010000011000100001010110110
11011001010110000010011000110110101010010001101100010100111001001010000111011000001000110110100
011111001001111011001110110110111000000011100101000110110000010011100100111110101110011001
110001111100011100111100011010011000100001101010000101100010100000111001100001110101000101101100000
010101000111001001100111010110101101100110010011111010010010000111011001110001011100001000100100
11000111110010110010011001100010011101100011011001101110000100011110111000100111000100100000000
011111100111001011001001000101101110000011011000110110001110101100010111001010110100000100010010110
01010101110101010110011010111001001010001001011001010011000111000001110101011110101001100001110111
0110001010001111100001011000101000111101110010001100011100001001001010001011011111011011010111
001010101110100000101100011101011110011001011101101111000010101001000111100111100101101101101001
011111101010001010100101100100011111011010000001111101000110010011110100100011000000101110110111
11101000000110100000100100110111101101010101000110101110010101100011011010010100111011110001000110
100101110111001110110110110100001110010111001000110000011000001100000110000011000010010001001
101101100101000001010001001100011001100110010001000110111011010000010111011010000010111001100011111
011101001001000010001001011010111001011010110011101001001101110000101100000000111100100101001001
000101110101011011101010010010101011011101100001000111100100010111101010100001101001000110000100010
0110100010101100100111101010110110011000110100011101000110000111010100011101010001110101000111011001
101110100001011010000101011110001110100110000010100101011101111010010001011111011110110011
1001110010011010011010010111001110010001100101001000100011011110001001011011110101000100001000111
0100100000100111100001100110100100101000101101110010100111001000000001010110010111010100101001110011
101000111001010101001101000100111011001110101000100010000010001000111000011101100110110011100111
001010000101010010100111000100000111000100000101010110010000000101010110010110010110001010100010001
100010100100111101110010100000001010100011100100111011001111010101110010111100011110101
0011010110001010001010010110000001100001110111001101110110011011000110111100011000110110110001000
101100110111001001110011100101001010010001000011010001110011100111001110011100110001001110000101
110001100110100001001000011001101101100010000111001101000010100111110100100010010111001010100000
001101100100000101110010011001110100100101011101100100111010110111001001010010011010110
111001110100100011011010000010010011011010001110001100101011000011010110000110111111
011010001000010001001000110001100001101100000100111010110111101011110101111010111010001001
00100111111000001110000110000010100011001100001101100110111010111101011110101111010001001
011000100001000100100011000110001100000101011001011010100101101010010100111010100101001110011

1010010000110110001110111100100001110110000010010010011001010101100010010011100101111000010010000011
10101001101011110111000101001000010101101001110110101011111011000100010011001011010101010000101
00000110001110000011100001101000010101111011011101110110011101110010000011000010100111010001011
010111101000111100101101000111110000110100000100100010101100110011100010100011110001011100100010110
0011100011110000000010010101001010010110001000000100111110101000100100111001000111011110000000
011010100010010011111001010101110001000111010100111010000100010001001111001100001001110010011010
1100010000000100010110101001101110110111010010010000100011110110101110001110100000100110000101110000
100010111001001001101110011001110111100001111110100101111000000001101001100010011001101110010101011
1001011101001000100110001010100011110111100110000100101100101001010010000100100011001000101110100111
100010100110110001010010011111101011101100011110011100010111010011000001111000011011010011101010
0000011011100111101100011100110100001100100100010101010011000111001101001100011011000110101100010
100000001001010101110100011100110001110100100101010101110111111010000110000100101001101110000111
11101000011110101010001100100111001000010101000110100011010111011011000010001111010111110100000
110001110000100100111100101011100010001110100111010000100110101000010011010100010001110101111010000
000010010111011110010100000100001010111101101010001000011101100110011011000111111100111110100010
101011001100001010101111001101001110111011100100111101001111001100011100111011001100001100110111000
100101101000101011110100010011010011000101011101000101001101111010101110110000001111110101110
0110000010000100110001010001100011000111000111100111100110001010011111001111100111101011101010
0101100100001000101001101111011101100111011001110100001101000010010001011101001001001101111100111110
100110001000011010001010100000100111101110100111010001101101110011000001000110110100010011001110100
11100111000110001101100111100111100010110010111000011111011011110010100011110011110011111011001
10000000100100101010110100110011010011001100100110011001110100110011001100111010001001100000110101
01110000100100111101110010011101001000011101110000100000111010010110010000100011000111000001010100
10011000100101000110111010100101101011101001001010000100011100110110001101100110101100100111000110
01011001100011100010110001110011001011001110011101010101011101100000011001100110001001100011010110
10010000100101110000101100011100010000010011001100111010101111010001010111010000110100100110011010
11111000000010011111001100110000000100110011001101101011110100010101110100001101001001110011100
0111010100010011010100010000011000100010011101011110100111011001110110100010011011000100110101000
11111010111100001010111000011110101100001100011110011010011101111001110011000100000101001110000010
1011110101000101101000100110100001001101001110101110100111010101110101011010010010000010000011000
00011010110010011010011110010010010100010011000110010101011101101011101011101011101010010110011
01100010010101110011000011100111001000110100010010101110111001100011100111010101110010100010111010
10011110101011000011001000001110000010101000110110001111110010010011110001101001100000001111000
01101111001011010001101000110001110100010100110000010011101000100111010100111010011101000100000110
00100111011010100111011100001010111100100110001000000001100101100111001000100101101010100010101
11001011000101110101111100011101001011101000011101101010100000101100000111100100000100110001
00101101010001110011000100111000011011100101110100101100100101100111000100101101100010010010100
00011100101011010100010011101100110111001011001100010010100011101010111011001100110011111000110
0101010010110000101010011011101010101110101110001010110010101100100101100111100100101101011110101
0011011110000110000001100101011001000111011100001010101100110011001100111011000101010100001001011
10111010100000011000110101111101010011001100010101001100010100010100110011001100110011000100011
101011010110010001100001100110010101000101010111011101010011001100110011010011010010110001001011
101000111010010111010001000100011101000110101111101001000110001001100010011000101100010100110101
1100011101001100101110010011101010111000111000101100010001100111101011101011000001000001011111010
0000101111001100001110110000010010100011110000101000001010110010100011001101110001011011111100010
0100101100010001011100001101010100011011100011011100111000000010110000100100001000101110101110101
01100100010011000010110001010100001101000100101111101001001110101001011101101100010100000010111000
1100001011010101010101010110011001000101101000100110011010101011010000110011111100001000101101011
101100110001101001110100100011100001000101100001101011101101110100111101011101001111010011101001
110000011101011011000000101110001001010111011011100111001001010110011101001100101110101100011100
11000100101011001000111000001010001100100001101010110010010111010101110110011001110101011111
0011010010100111010000110011101011001110001011000010010111000011010001000110101010100011100
010001000100010001110100000011000000110010111100011000111010101101001011010010111010010110100
1011111101111010110101011100010111111100011101100101011100101010100001111000110011101111010010
111010101010110000001101000111000000001100011011111101000100110100100101000110101111101010111001110
01000100001111010100010111010001101001111000110010101010100011101000010011000011111000011100
00100011011000110000101111001101001011010100010010011001011111000111101100110001000110000110110110
10110000101110101100001001001100001111001100011110111100011011110101011100011110101001101101000100
10110100000100111110001100011010001100101000101000001010101001100001100101101001010110011100011000110
00111010001111001100011101101000101110010111001111101101110110111011011101111011100101010101
0110010011100110001110011101101001011110010111001111101101110110111011011110111100101010101
0110010011101010110111011000110011110101110111100011111000111100011000101000001010010111011110
0100011100010111010100010010011000111001100111001100100100100100110011100000101000111000011001011
1100001110010110110110011011010111001100101011111011100110010010010011101000010011011100001001100
000010110010101110110101110011100010001001010101110110111011011101101110011001100110000110011110
00111000101100101011101101000011011111011000010100010100110000100111001001010100011011010000100
1011010011100100100110011101001111010110111100011111000111100011000101000001010000100101011011110
01000011110010110111110100001001011101100010111001010000000111011100001100111011110000101101
00111011001111000001011010101000111001010011100111001110011100111001110011100111001110011001100
0100110010100110001101101100110110101110011001010111110111001100100100111101000011101010111010
0101001101010010110000111001110111011010001110000011100011110001101100101101000101100010001001111
101111100101110100010101110101000010100111001000101001110101011100011000110001101001011110101
00111100001000111010010001110110011110110011100111001100111001100111001100111001100111000001
1100111101001101001011110110110101110010011100110111110100000010010110011110101000001110100011011
100000111000101110101011011001111011101001101001110011101000111010100111010111000111000110000
1100100111001100001111100101111000011100100011011000111100001111000011100011101001100010011
1010010111001110000111000011100001100110001101010001110100011111000010100011011101001100010011
1010010111001110000111000011100001100110101101000010011010011010100000101000001110100000111101001110
01010110010010001001111010110011110000111010011001111100100010101100111011011001110100111010011

1101101101100101001001100000110011110100011011000100110110011100111001110010111000110101001011100100111000
01000100010001001101001011000101000101110011010011000111010001110000110001010011100010000011011
0001001101100100001101000001001111011011111010001111001101110000101011001001000000101011000111100
10100110101100000011000110110111101111001011101111000110010000100011110110010111100111110010001011
01110011111011001001101011101100010100100110100110011100111010110100010101000010111111000011
00101001100111000111000111000011000101000110011010111101111001110011001000010001110111101011
100000101100001010001011001000110100110011110100011010110010010000110011110110100000101100110111010
01001100110011100011011101000100101111111001000010100101011010001111001000000101110111000000011
0011001111110111110111010010100011100000001101111011111000111100101101110001100011100101000101
010011010101010101010011001101101001101010011011101000111011010101000100001110000011011001110100100
011001001001010011010101001011001001010010010010010001010011010000101001101000011010111001010110110100
101100111010100110111011011011001001000011110001000001101110101011001110110101101101010000111010
1110010011101011111001110001100010100101100100111101101101010101010101010110111100111111010111
00101001101111001011100110010001001100110011001100110001000011100100001110010000111011001111010111
111111000001110010010011100100111001111101011001000000101000111011000010110010000111110111000
1011011000101000010001100011111000101101101101010100110100100101101001000101010101110100011011
01110011101001001110101001100011110111010001110101110011100110110011001100111000101101000101000110110
1011101010100111001100100101001111011101110011111011110011010101001101110011010101000111000111001
10111010010100111110011001001010011110111011100110110110111001110010100100110110011100101001001
11001000001110001011101110100101100001010111011100000001100101011110001011110010010001110010100
000110101111010010010011101110100100001101111000010110000100100001100111110110110100111100110011001100111
0011101110000101011110011011100100111001001110010011110010011101011101011100111100100111000111
10110011010010101000010110010010010001110111110101100111001001001111010110100001110101110010100
1010101111000100111010100110010001000110011110011001111100010001000000101110010110011001100111010
10111100101010101011111000110110001000100101010100110110110101101110100001001000100001011100101100111010
1111010011010011110100111110101100101011100111000101010100011000110110010101100010100110101001101010011
001110100011011001000010001110101010000010010010101101001110100110010111011001010111001001110110011
01100010010101110100110010011101011010111001110010101001101100111101011101001101110100110011101110
1011101010100011011011001001110101110011101111001110011101011010110111010111010110010110101101
011001100111010111010111100111010111001100111011110000110011001100110011001111001011100110000111001001
110001000110000001011110110011100110000011001100001111001010010010001100011111011010110010010100100
001001010010010011100100000011000100111010000110000100011110101100001011100110011101100010100111101
0100001101001110110010111100011100011001001111000000011011101000110111010001010110100011011010010100
1101101001110111100011101110001100100111011001001010010010011011001011011001011101101101001110011011
1100101100001100000010111010101111001000011001000011011000011001100100111100010001001101101000010
1011110010101011101100111100001101010011100100110010010000001100110011001100110011001100111001100101011
01110110011100011110110101101011010110011001001010110000111110011110101001001111011010010001110110110100
0011010000111010110000100011110010110011110001000101000100111000101110000100111101100100001111001011
0110101110011100110011011001101001110110110101110111011010010011110010000111011101001001101
11010010001110110110101101001100100100111010100111011000110111011000110110111010001100110101000001100
11011000100101101110110001001000100100110100010001001101000011011001110110011101100111000110101001
11101000010010010100110111010100110010001010111001101100100101101001000110000110111110100001010
0010000110110001100011101011101101101101100010011100011110101110100111111001101110000111100110
010111110011111110001110011110101000000101101110000000101100110111101011000100100111101111101
1111011010011110001100111011000111000000111100100100001000101011010011001111110010011011110101000
00100011110101000110000001101101010110110011111011010000111001101110111000101001111100011111101
11010101100111011110001110110010111101101100100111000001010011110101100000100001000101010010010
01001101101010110111011010000010111101101000100111001011100110111010010010001100101000011000010110
00100010100100100100110011101110010010011110010010011100001110010011101001111010011101100110010001
00011001000101011001010110011101100111010100100101010011111101011101011110110101111011110110
01110110101001010010110011110101001101011001111000101010111010111100110111101011110011100110010000
101001010011101000110100101101101100001100000010100010011011101100011001101100110011100110011100100
101110101111010000110100111000111011100111010011011101000100111111000010101100001010110000110000100100011
01100000010111011010111000111100110001100011010000110010101110101100001011000100010000101000001101
1100110111110101111011011001110111000010001011100011111000011001110010011100000110011110000001100011
000111110011101100110000101111110001101100000001001000110011001101010011110111111000001110
000001100011100001100001110110101010100011101000101101100110011001100110110001101000110101011101001
1001100101011011011001010010010010010000111011111100100111000001100100001010000100010101001001101
101100011000111010101010110010101011101010100111101100001110111100111100110011011001010100111
0110010000100001101010000100000011000110010100001011010011101110000100001110010101111010111101
10000110101100100100111110011101100111100011011001100110111000110111100011001000001000011010
01100000010110011101011010001010011101101110111000110111100001110101101010001000100110011001
1111000111110011000111000001101000110101101001110110110110110110110100000001011000110010010101110
0101010110100000010111011011001111010000101100000000101110101100010000100011101110100111101010
0101100110001001101000011100010001110011001110100111011100111010001110100011101000111000111000101100
0010101000100011000011101101000101001110111001111010001110111000111010001110111000111000111000101100
0101010001000110001110110100010100111011100000011101110001110110100011101110001110111000111000101100
00101010001000110001110110100010100111011100000011101110000011011010100010111011001110001100010001

0001000110010111011001110110111000100010101110110011011000001101011011100010101010010101101011011001
1010000101011011001001010010101001100000101001010101110010101001001100110011010000111111011100101
0011110111111101000000111010100110001011101011111001100110100100101000000011011110001011100011
0010000001011111010010001101010101001100010001100100010000111100001110101010111001001001010101010
01010010011011100101110010111001000110010111001101010000001000011110001110110011100011101011
011001001001011100001101001110011000100011001000100011001110010111000110000100010010101101101
110010100011001011101010011101010101000101010001010011101101010010010110010011001000110110000
0101101010010100110111001100010110101010101010101011101100001110010101100010101100111001111001
100101101000010110100101011100111110011111010001101000011011000110110110101011011110011101
0110011010011001110010100011110101110101000000100011101111011000100010001100010101101000111110100
01101100101010110110010000111001001110110111001011100100101101100010111011001101110001000001010
0110011000010110011001011100000101011100100001000100001100110011011000111001001110010101110010110
111001100010101110000110011000100110101101000101011010000101011000001000100110010101011010010
01011101110010110000101011000011110001101100101011001010110111001001011111001010110011000011010
01010110110110101110000101100100101010001010011100100010001000111001110110110110100001100110001101
11010110000001010100001110101001010001101110110100100011001101001011010100010011011101110000
001001101000001101000011101001001111000111100100011001001110001100110110110100101001000100110110110000
0011001000011100101110110010011110001111001000110010011100011000110110111010010100100010101101
011011111100010011000110010100111001101010001110101000011010100001101010010100010111010011101101
11000110010000010110101001010111001100101110010111001011100101110010110001100101100010110001011011
000111000110000011110110010111000111001011100101110000110010111000011000011000110110011011001010
0101000110101101110110001000100011000111000110001111100000100110111010100111100100111010001101000
0010100010010101001001110101011100010011010011111101101011000110110001010110100100000001
010110101101000100100011010001001000111001111011010111011010011101001110100111010011010010101000
011001101011000001110001110010011101001110100111010011101001101001100100110010011001010110101
1101110101001001100111000100110000001011101110000111011011001000100010001000000010011101100011
111001010010010110011001100101010010000110100011010101110001010010011010001000100110110101010000001
1001000110011001111000111110001111001011101000110001001011010011110001001010010011010100000
000110111001110000011110110010111000100100101110011100110010011110101100000100110001001001110
0000111000010010000001011101110010101100001100010111010010110010010010101100011011101010101
11011110000111011001010001100000001001000001111100100111110001001010001100100011101101101100110110
000111011001100110100101101010000010100011001100110011000011001100110011001101101101000010011
0101100101001010110101101000101001110111010111010111010110100111010110100111010110100010011
00111001010101100011101010110100111000110010011001011001100110011101011001110101101011001001
00011001100101011100011010101001100101101000011101101001110101100111001111101011010110100001101
011000110110000011100001101001101010010001011101010100110100011010100101110000010100110011001100010
011100001011110111011101011101000101001101110111101001011010000100011010111000000110000000101111
00011101101101101001110101011010011100010101100010101100010101100010101100010010101100010110111
1100110101011010001000101001001010000001010011010101001001011000101100010110001011000101100100
01100110000111101110010101101001001101000001010100000101010000010101000001011001010111001101001010011101
0100100110001010001010001010001011011110001011101110111011000100010101110110000001111010100010
001000111110010100100010011000111011010101110001001100010011110110100111001100110110010010001
000110011001010101100011010101001100101101000011101101001110101100111001111101011010110100001101
011000110110000011100001101001101010010001011101010100110100011010100101110000010100110011001100010
01110000101111011101110101110100010100110111011110100101110101100111001100110011001100110011001
1101110010010110101100100011010110111001100000100110011001101011011101100101101101011011101001
110100100001110111111000111110100100011110101101011000100101110110100101011101101001010110001000100010101
1001111000110011101000101011010010011000100110110000010110101010001011010101001110010110110101101
0111100101000010101110001011000011010011011001101100001100110011001100111011000000010000011100
1101100111011011101000101010010011101001111000000101011011011001101110101000101110010000111010101
1000100101000001110101100101110111101100110001010001001111001001100010100010011110010111110100101
10100111010100010100011010110101101011000101101011001110001100100100000110001001101000011100101
1011101010010010011100011001111101000111100010100111001100110110100110100110100110100110101001
1010000110011110001000100101110001011010110100110010111011000001001000110010110011010000111110001
1111100111011101110100011100100110111000111010011100111011000101011000011001111000011101011101100001
1010011000100010000111110100010111011101100110000111000111011001100011001110001100110110000010010
0111000110110011101011000101110000000110101000111100100001001111010001010011110100001100111001100101
0010011011011111110001010010110100111110101010010101110111110100001100110001001111100111110010
101111010100001101111001011001110110011011010010011011100010010110010101011110010000111010111
1101110000100100010100011011110100111010011101001110000111001100111010101101011010110101101110
00000010000101011111010110000011000010100001110010111011110101110010011011100101010110000100011
100111111100111001001101010010010100011001010000100010010101110100001110001010011101101001010110
100010101001101000000101001100010111101110110110111011100110010010100111000001110000000100101
01100101010100000100100110011001101110101000011101101010000111011010110011110010111101000010
100111010111010100010001000100011011110101000011101101010000111011011001000011110010111101000010
0010010101101001010110000101100010111001011100111110100111110011000011111011101000111010110
00011110101011001100101100010110001001011101011010110011001100101101001100110101001001100101
00101010010111000011110101001000010011101100010101000001000110011110001101110101111010001010
01001101100100100111101010010111010100100010011001100010101001011001100010101001011101011101001
010011011001001001111010100101110101001000100110011000101010010110011000101010010111010111010111
01010100001011100000111001101001101000001100010011011101011010011101101101001010110001100101111
001100010010000100110100111010001110010011100110010001001101010000111000000011101001111
0001000101001111010111010110010010011111011010101001011101010111000110001000101110101110101111
000111001100010100100111010001001100100000101000001010000010100000101101010110101010010100110101
00010100001100011101010001001110101011101001000011010011101111010100011011010001101110100101001

01100101000001101110010100100110111010100010001000010001100100100101110000010010110011000111010010
11010001101100000000101111100010101001011101101111000011010011111011010010101011011010100110111
0100000010010010101101101011001101110110100010001110001100101110110100110110010001111000110010100
11110011101100001001001011110000100011110110110110011110101001010001110100011101000110100010110111
0010100100101010110111100001000110110010000010100100101111010100000100111011100100001110001101100101
010010111001011100100001110110100000111011100001011100100010000001010000010100000101100011010010010
1111011010100000110100001110000100000111000111001011110110000001101110110000110001001011101110101
00001111100111101010001010011110000101101010011000011011110100001001100101010010110101001001010000
10101100111110001010000010111110000000100001001011010010001111011110110011001100000111001001001110
10101100010100101011000001101110001001110101001011101100110011000001110010010011100011100011100
111111010011110100101001110001001010111010110100000101110010110101101100101100000010110110101111
0101001111110100011100001010110111010001100101101001000010110110010001110100011101110010010100000110
10110111000110001111011010110000111101100011101000101100101100100011010010111011000101110
11101100111001000011101011000001110100011101000110010010010001100100100010001001010000110010
110100001011011010100001111010110101110010111011101101100100100010001001001000010010
011100110110111000001011100011110100111000101010011011003110111001101100000101101100110110101111101
0110010100100010111011010011010001011100010011011000110000000011101010101000011110000100101001011
010101000111011001111101100000100100100110110100010011100111011000001001001001110110000010100011101
000110101100101011010100011001001000110000101011111010100110101000100111010001001001010000110011
0101100000010100011011100001001110101010011000000101001001001001001011110110011101100010010111001
0011010110010101101010001100100100011000010101111101010011010100010011101001001001001010000110011
0101100000010100011011100001001110101010011000000101001001001001001011110110011101100010010111001
00110001110000010101100100010000111100001111100110111010011000100011010111011001001010101101001110
1100111101001010110110101010010101101000100000111010001101110000011001011001010110001001010110010
11001100110100101110010001101010010111000110011011000001101110001110110000001101000011100101011
100011011101110111011011000100100111011000010001001100011100001010001110001110100010011100101011
1000111000001010110010001000011110001111100110111010011000100011010110110100100111011000110010001
1011000101011010001110000010000010110110011001110110011010110110110110110110111001101110101001
01000101001100010000010111001001110000101111011100100100011000000010110110010111010010001111
0001001011010101001101010001110101000100101101011011011011011001000100010000011111001001000
11100000111100101100100111000010101110110011101001001000100010111101110011000111011110001100
111100011010000010001100100100111110010110100011101001011101001101100110100100100110100000010
100110001100110011111001110001000101010001001000111101100010110110000110100000111000001010010
01001101110010000100100110100011110100000111101000001010010011010101110101000110011001100110000
110111011101101001011000001010001011010001100110100111000101000001101110000101100101010101
010001010110100010011001110110010101110000011011101100000100100100100011001000110100110110101
010010110011101010001101000110100011011010001001001001100011101100011101100011011100010001101
111110101001000011000000101100101000111011010000000011111010000100100000010110011001110
0111000101010010000011110001011010011100010000110011011110111001101000111001011100010011000
1111100101101101011111000001001100000100011101000110100110100000101000100101110101100101110
00010000100101011011001001010110011110110000110011000010011000100100100110010011001100110011
011001001001001001001100001111011010010101101000101100100010100111010010001100100110011
0111001110010010010111000101100100101010110110011101011101100011001011010010011011100001110
11001111001100000000110011101101011110110001000100011100010001111000111001011010010100110011
000111101100111011110100100110010010011000100100011010100101101001101001101011001100111001101101001
00001111101011101001010110010001100001010111100100010100110111011101010001010011111100000110
1100000100000011000101000110110011001010111011001101110011011100101100100100001100111000110011
1001010010110001010001001001110010001110110110000010111001011000011101011000100111000101110001
0110001100000000100100110010010011110110111100101101000110011011010001000110101000100010010001101
100011110111000011100110000111000110001100100100001001000010001110110010011010000101100011100111
001011110100000101001111001000101101010011101001010010011100001000111000000100110010010000
1010011001001110011101110100110011101100100000011000110001100011010011010111000101110110001111
0001100100111101110101001101001001100110000110000010000010010100101101100101110110001011101001
1000111110010110100101001001100001111110101100011111101110001010111101101100011110010000100
1111110011111000101110001101010100000100101001101110000100010110001001001010101000000110110
11011001100100001110000010100001101110101100110011010110111011101110011000110010011001100111
1100001100101110111100010011011001011100100010011001101011011101110011000100010011000101011
11010001001011011010111010010010010011001110100101001001011011000010111000001011010000
11011001000100010001110101011101010001000110110001101011100000101011100000110101100010110011
01110010101010010010111011001001001000110010010001001000110001110000011010100101010001010000
110001001011100100101101100100100011000001100000110000110011111101011000111110100111111010001
010011000010110001110010100100010001011000110100111010110001110011101000100011001010101110011
0001001011101110000101100101110110010100010110110001011110110100111101000001011001110001
00100101101101100010010100010111001011010111011011011001000101111010100111101000001011001110001
0011000111100010010100011000100011000110011101011001100010001000110001110001011100011111
0001100011110001001000110001100011000101011101010000001011110110100010010001000010111011010001101
1000111001110101111000101101111011010011000110010000011100001000100000010001100110011101101101
01010111010011001010110110100001111000111011100031011100001111001001010001110011100101001000001110
110010010101000101110010110010100010001100100100010011001001100010001110000011101010010110001000
01000011001100000111010011101110010000011000001100011001001100000011001111110101100011111010001
010011000010110001110010100100010001011000110100111010110001110011101000100011001010101110011
0001001011101110000101100101110110010100010110110001011110101001111010100111101000001011001110001
001100001111000100110001001100011000101110101000000101110101000100011110110100010011000111010001101
1000111001110101111000101101111011010011000110010000011100001000100000010001100110011101101101
01010111010011001010110110100001111000111011100031011100001111001001010001110011100101001000001110
110010010101000101110010110010100110101001110101001101010000011000111100000111000100110010001101
010000110011000001111010011101110010000011101011000101110101100010111101011010011010100001011
10111000111101111001000101110010110101100010100111000110010100001100111100000010110011101100011
000111100010100111000001011101011010111000101000110001100010100010110010111000010110110001111
111001011001111001011100100110010010011100100100011100111000101100111000101110100110010011010
110100001111101111011011101001011000001110101100010111011100010111010110001011010100001011
01100110011100011110100110111001000100111011000100010110001100010010101101000000101101000001011
11100110011001000011101001110110011001100110101101101110111001100011001100110001101100111
11000010010111011100010011011001000111010110001011101100010111010110001011101011000101100011010
10111000111101111001000101110010110101100010100111000110010100001100111100000010110011101100011
00011110001010011100000101110101101011100010100011000110001010011011001000100110111000010110111
111001011001111001011100100110011001001000111000111010100010111010110001011101011000101100011010
110100010001000100011101010111010100010001101100011010111000001101011100000110101100010110011
01110010101010001011101101001001000110010010001001100100110001001100100110001001100100110010000
1100010010111001001011101100100110000001100000110001100100110000100110011111101011000111111010001
01001100001011000111001010010001010011011000110100111010110001110011101000100011001010101110011
0001001011101110000101100101110110010100010110110001011110101001111010100111101000001011001110001
0011000111100010011000100110001100011001110101100110001011110101000100011001110010001001100011001
001100011110001001100010011000110001100011000100111101010001000111101101000100010000010111011010001101
1000111001110101111000101101111011010011000110010000011100001000100000010001100110011101101101
01010111010011001010110110100001111000111011100031011100001111001001010001110011100101001000001110
11001001010100010111001011001010010001100100100010011001001100010001110001000110101010010110001000
0100001100110000011101001110111001000001100000110001100100110001000110011111110101100011111010001
01001100001011000111001010010001010011011000110100111010110001110011101000100011001010101110011
0001001011101110000101100101110110010100010110110001011110101001111010100111101000001011001110001
00110000111100010011000100110001100010101110101000000101111011010001001111011010001000100001011101
1000111001110101111000101101111011010011000110010000011100001000100000010001100110011101101101
01010111010011001010110110100001111000111011100031011100001111001001010001110011100101001000001110
11001001010100010111001011001010010001100100100010011001001100010001110001000111001010010110001000
010000110011000001110100111011100100000110000011000110010011000100011001111110101100011111010001
01001100001011000111001010010001010011011000110100111010110001110011101000100011001010101110011
0001001011101110000101100101110110010100010110110001011110101001111010100111101000001011001110001
0011000111100010011000100110001100011000110001100010101110101000100011110110100010001000001011101
11100101110010111000101110001101010100000100101001101110000100010110001001010101000000101101000001011
11011000111101111001000101110010110101100010100111000110010100001100111100000010110011101100011
000111100010100111000001011101011010111000101000110001100010100010110010111000010110110001111
11100101100111100101110010011001001000111001001000110011010110111001100010110011100010110010011010
1101000011110111100100010111001000001110011000101110101100010111010110001011101011000101100011010
01110010110011110010111001001001000110010010001001100100110001001100100110001001100100110010000
11000100101110010011101001001100100010001101100011010111000001101011100000110101100000110101100010110011
01110010101000100010001110101011101010001000110110001101011100000110101110000011010110000010110011
011100101100100100101110100100100100011011000110101110000011010111000001101011100000110101100010110011
011100101100100101011101100100100100011011000110101110000011010111000001101011100000110101100010110011
01000011001100000111010011101110010000011101011000101110101100010111101011010011010100001011
10111000111101111001000101110010110101100010100111000110010100001100111100000010110011101100011
000111100010100111000001011101011010111000101000110001100010100010110010111000101100110001111
111001011001111001011100100110010010001110010010001100111010110001011101011000101110100110010011010
11010000111101111001000101110010011001000110001100100010001100111001000101100111001000101100110001
011100110010101100011100101001000101001101100011010011100111010001000110011101000100011001010101110011
0001001011101110000101100101110110010100010110110001011110101001111010100111101000001011001110001
001100011110001001100010011000110001100011000101011101010001000111101101000100010000010111011010001101
1000111001110101111000101101111011010011000110010000011100001000100000010001100110011101101101
01010111010011001010110110100

0100100101110101001101101000010011101111001110101101011100110011010011001101011011001110111101001111
01101010101010011110001101101101010101000011000010100100110000001011101100110010110010001101001101
010111010011011011101101111000011100110000011100001110001000100000110110111010011101011000001110
1001001111101011011010100001011110111100001111001011100110011000100010101011011011001101101011
00110101011101111010110011101101001010011011110101111101010100110101110011000100011010111
110100101000110011011000001100011000011011011001100010011110110011000000001100111010011000101011
001001010111101011001010101010000110001010011011101101111100100110111000001111100100110110001
1100110100010110010010000100101110000111000000001100110111110100101010111011001100100011010101
000011010001010011101010111010001101111000010101110100100110001101010011110110110011011010001011
000011010110010011100101011111010001011101000010001011000100101101111000011100100001100001000010
101111010010001100000100111000010010111100110110111010101011001110000100101011100100111001010011
1010111111011010011000101110000110011100010110110101010011010000001011110011101101010110010001111
000000101111000010101011100100110001101110101011100101110010111001010000100100111011100001010000001011
11100110000110010110000011000110001101110101011001011001100010011110110010110101101100100100010100
10011101101000100000110101111011101010000100101011011100010011001100100111000000011000000101
11010101001100111010100100001100101100010001001101100001011000011001110001100010011001111001100100
011101101001011010100001011011001011001110100100101101011001000001110010001001111100000001001
0001100111101010011110101001110100010110100010110010110000110000010001011000011001001001001001
0101101001101110110101100100011000100010011000100111001100000011011101000101101101101100000011000
0001011001110111001011101010111101100001000101100001011100100100011001111011100110101110110011000
101100101000111001110010011000011101001101000011100000010001000011011001001001110000011000011000
011001111110110101001101100101100101110010110010110011000101010001011000101010001011010001111010
10101000011110001100001000110110001011011100110010000011110101011010011100000111001110001111010
11000110100001101100100100010101101001010010011011011100110010011101100110100101010001100100
1001101001010100010011101001100011001101001101001100101000101011111011011001100110110110110
010101100001101000111010100001110110100001101101000100110010010011010001001101101100110110110110
010101100001101000111010100001110110100011011010011011010010101001101001001101101101100110110110
1001000110000000110000101100111100000001100111011001011010001101110100100100111010011011010110
010010000101011101100101011101111101110110110100011100001101000101010001101110100100001100110
011100000100101101110011000111011010111101010001001100101001100110101001101010011011010011111
01111110101000110011010000100011011001110110100010101100001011010001100100010110110100110110100
110110011110101010010110100010001101101110101110101010011000111011100101000101110001111010101
0101100010001011101000001110000100100010101001001010110010000101110100001001001110000001000
100010000101011101010011101010011101101001001001110010010111100101100001101011011001000011001
101010010101101110011101010010011010110100100110110100101110010110000111001011011001100001100
010001101001100101101000001010111100000101000110111000010001101100101101010111101000111001011100
11110100111011100111001111001000001000110011010101101001101011101001101011100100101101001101011
0111110011011000101100001100011011001100110101010011101010110110001100100010111001101101000100111
010001011000101000001010111010010111010010010001001010101010101101010100001010110101101000010
0101101010001001101000001001110010011101000100101111001010000111010010100001110101101100000110
10101000101101111101100100001000101011101101001010110110110000101010000110000101101100001000111001
10001011011100000110100011011001100010011011101000011010001101000111001110101000110110011001100
10101001010010011101101000001101000101100001010101001000111011001101000011100101101000111000111000
100011011000010101100011011100101110100101000110111000001110000111000010111000110111011001
0110011100101101000100011110100100100011000101011101001001100011001110001001100000110000001000010
11000000100010000111101010100010011011000100110110001010101110110000011001100111011100100110011
1101011011000111001010010011001011101101001111010001110100001001010001011100010111011001010011
010101100111100101111000111100001110110111000100000110111100101100010001010101111100000011001
0000011110001001100100101010110110010100001001110001010000100111000101000011101100000100111110100111
10001011100111101011001101110001011111010101010010111000010101000100110100011010001001101011001
0111011111001010100100000010001010011011010000111100011100111000001001110010110111010010010011111
011010100110110101110001011111011111011101001111000101010101010101010101100110111000110110001
010010011000101010111100100010111010000100100110010001101011011110001110001100001110000101110000
011110010111001011101001000001100000001101001101011000110011001100100110011001100100101010
1001100000110000101100101100100011000001101100111001110010010000101101010000110100101110001000
10100101101011001000001010111110000010100111110000100011010101110101011110100011100101110110
011001110101000011011101100100001010110110110110110110110001110100011111000111011001011011111
0111110100101011010000110001001010111010101000110101100001101011001110110100100101110010111011001
0101101000011000110101111100110101010001001011100110100011010010011100101110111001110101110011001
011011001000000100001101001111110111100101011110000000101100101111001010100010101100100100010111
011010001110100010011101001000110011010111000011001011100011011010011110000111000011100001100110101
100101100110100001001011100111010011001101011010101100011001100100010001101100100110011100001110000
101010010110011001100001100001100010011001110001011100110110111000011100010111000110011001001
101100111101010100001101110110011001101101011011101101001101101001001111011001011010010000011
1000000110011101100011001010010110100010011010101010110010001101011011010100101101000101111001000
0110100100011001110110001100011111100001011000000101110001010000111010100101110000111011001100010
0110110001100110011100011001110010110011101001111000011101000001000000011110011001011011000
01100111011011011001000011100000010101110010010100000010000101000011011101100010101111110
01010111001101110000000010101011110110101010010110000101101101101010100100011001100100101110
10110110001101101110010110011010001010010011110100000111000101001101110011001010111011010101
10111000100110001010101000011101000110010111101111101110111001101101001101100011101011110100110
0100100001011001010001110111000100011101100110011110010011101011101110111011100110011001000
01011100011111110001110111010010011001000100110101100100001000110110010001000110000000110000
000001100100011010011010001110010110010001100100001000010110000010011011001000100110000000110000
1001001110010010100011101001010101100100100010001001101001001010101101010111001010111001001101010
001001101110110101010000100100011111010101110010101100110011001111101100001000100110100001
1000111010010010011111011110111000111001100010110100010011000100000101110110100011100001000110
011001010110011100011100011100011011001100010001001110110011001000100111011001110010001000

1000100010010110010111110100001001100100011101010111101010011011110010101001001001011001100100011001
0011011110110111001010111010111001011011101101010011010000001100010001000010111001100100101000000
1010000010010110111101100000110001000100001010110011011010000111110100111110000010010101101000
10101011011010100010101000001001001100010101000110001110110011111110000101011010110110001101110010
10010101100011001110000101011001010000101011100111010110101100011100110000101100001100001000111
10010011001101101110001110001101010000101010000101011010011001000000100100010100110011110100011
10010010101011101100011001111010011010011001000110110100111101111011000010101100011010100001000
1111011010100110011100101011100110000100011001101011101000111010000111100000011000100010000011
100011001100100100000110001111011000001000001100100111000010111000100101010000111011100100000111
0111011001110001011010010101110011100000111000001110000111001101011101011111110100101101011001001
10101001110010110000100010001001010110111011000101110000000100011101001101110001110010010010111100
1010011101100110100001011001001001111001101010101101001000110101100101100010000100100001001010
0101101100001000111001100001000111001000001101000000110100011001101011100011001111000110001000110
1000010010000000111000010010001100011101100011010101110000001101101101000101001111110000111001
0010100101101011001101101110000111010100010001101011000010111010100011101110010101100001100000
100101001000111011001010101101001110100100011110001110100100001001110110010010100101110101111001
0110100011101001011001000101010011001110101110101101000100010010001111001110011100100110110011
1100110010111001100001001001111010111000100100001101101011010001001011001000101110000101000001001
10010111001110010010100010000101110101111101000101110000011100111010000111010010011011110010001
011111101001000111000010001100101101110011000111101011110110001110110000100100110011000100111
010000110001111101000010010001001000110110110001110101100011011001100100101011001001000110101011
100011011001101010000110011101101010101001111101000110110100010010100001011000110010100011001
1010100011111011001011111001110001010111001000010101010000011100011000011010011011010010110010000
01101110100001111011010010011010011110111011000100101100100011101010000010100010110100111011000
11101000100011101100100010010001101100111010011011011101001110100011101011010011110110111001110011
100001000110100110001110100011010011101010010110010001010111010000010011101101000010110100010110
100110001111100101110111111000111011000010011100010101101100100110100001011001011001010110010101
100101111001110110010001100111011001010010000101100011011001011100101110010111000100111001000
01101000100001111100100001011010000010011101011000101100110110011011001011011001011100100111001000
0110100011110110010111100111000110010000101010100000110011101100110010011011011001101101101011
01011100110001010111011101010110111010011000011011101100010101110001010110001010011011011010
01110110010101110000111011011100000110100001100011100100111001100010001101011110110110010110100100
10101110111101010010000011011010100000110001100100011100110011110100010101110000100110111000000010101
0011010111101000010011111010010010001001110101011101100110010010010110100011101000011000010000110
11000101100010101111001001001110000101011101100110011001101110110001101011000011101010000000100
0010110000010011100110111110011001000110011100011010111100101101101101110111101101100001001000
0100010100111101100011100101110101101100100101011010100101011100010000100011010111000000010011000011
111101011000110011100110000101011110101000001010111010110001110001100011000111000110110001001100
001011010011010110110001001001000011110001110000110011011001110110011101100011011000111011
1101001110001100000101000011001100110010000101101010100010100101110011101101000010101011011011
101111001011110110011100001001110110011001100110011100110001100011000110011100110110110011100100
111010011100011011101100110010110011001100110011000010100100001001000100001000011011100001101100
1101010011010100011010111101000100010011011011101001100000100100011001000101100101011100011000100
1100101011000111101101001010010010101110010011001001100100111011000010000110011101110001110011
001110101001011010011110101010000100100010010100110001011000101100101000110001001100111011011011
010011000010010000010011100111000100000011001011000000100111100100101010011100100101001101100100001
110000101010110100111100010010110010001101000111011001101110010011001100010011100100110000111011
000010111001110110001100000010100110010010111000010100110101000111010000110011101110000110100001
0100011001001101110000101100001100101000111001010101010111011101100010010100001011110110101011101
11000110010101010011011000011011000001100001110101111010011001100110011011011101100110000011110
001111001011101011010111000010111001001110101110001011000110011001100110110110011000000111101011
111101001101101011101011000110010001011010101011101011011000010101000100010011001100110110010010
111101001010001101110110110011001101010000100000010111001100110001100110011001100110011001100111
111010010100011011101101100110011010101000001101100110010111001100010011110011000000111101011
10100100000001000011010100101100010000111010110011001100110010001100011110001110010111011011111
01000111010000100100001101001101010010001011101100110001001110111000111110010000100110101000000011
101011000011100010111010000100000100111010010000010110110011011010011101001110100111011001000001011111
010000000100111001110101000010110010011011100101110011011100110110100111011001100100000101110010
110101001110010010100011011000101110101110011000001001101100000001110001011000010110110110111
0100101011001111001010110010101000101001101010101000001011100110000011100010000110011001101010011
0010001110001011101101100011000000011010000111101001100110011011001101010000111000100001101010011
0100001010101101101100011000000011010000101100100111011100110101000001110001101100110000011100010
010100000101010101101101100001011001000101010001010111000010010101110000100101101100000000111001100
11000011111100110101010101101110001001100010010111011000100110001100011000101100001110001001101
11000010110000011100111010111101010111010100101110001011000101100001011000110101101011011100
0100010101011111110010001100100110110001001110101000010100011101100000110000110001100000110100011
0011010100110111111001000110010011011000100111011001100000011001011000000011100110110110111
010010101100111001010110010101000101001101010101000001011100110000011100010000110011001101010011
001000111000101110110110000110000000110100001011100101110110011011001101010000111000110111000010
010100000101010101101101100001011001000101010010101111000010010110101110000000011100110011001100
110000111111100110101010101101110001001100010010111011000100110001100011000110001110001001101
1100001011000001110011101011110101011101010010111000101100010110001011001101011010110110011100
010001010110011110010011001001101100010011101100010011011000001100011011000001100110110110110
001101010011101001100110011011000100111010111001100000100110110000000111001101100000100110010
01000101011001110010011001001101100010011101011000100110101000001101100110000011000110011010011
0010001110001011101101100001100000001101000010111001011101100110110011010100001111000110111000010
010100000101010101101101100001011000001010000101110010111011001101100110101000001110001100111000010
11000011111100110101010101101110001001100010010111011000100110001100011000110001110001001101
11000010110000011100111010111101010111010100101110001011000101110000001010011010011101011011001
01000101011001110010101100101010001010011010101010000010111001100000111000100001100110011010011
0010001110001011101101100001100000001101000010111001011101100110110011010100001111000110111000010
01010000010101010110110110000101100000101001001101010010101111000010010110101100000001110011001100
110000111111100110101010101101110001001100010010111011000100110001100011000110001110001001101
110000101100000111001110101111010101110101001011100010110001011000101110000001010011010011101011001
010001010110011110010011001001101100010011101010000101000111011000001101100000110001100000110100011
001101010011110110011001001101100010011101010000101000111011000001101100000110001100000110100011
0100010101100111011001100100110110001001110101000010100011101100110110011010100000111000110000011
00110101001111011001100100110110001001110101000010100011101100110110011010100000111000110000011
10001010110000111010010001010011101101000110110100001100001010111101001011001110101001101011110

110111100100110110010011100100101011110000101001000110011011110110100101011101100101101110010101100
110100111101110010100011011000101011101111100110110010000111010111010011010011001100000011000011
0101100011000000101100000100001100110100001000011100000101001101001101101100000001001000101110101011
1010001111111000001001101110101011001101000011101000111100010001000100010111010000110110111001011
001101011011001010110010111010000101111011010010110010110000000111001011100011000110101110010010
100100110110101010110101010101010011001001100100001110101000011100011101110100110111011000100
1100011100111010001000110011000111001010101110101011101101000101001011011010011000110010001110010011
1111110010110101011011000011001110101101010111010010110000001011110010110101110100100110011100001
0100110100101110100101110100010100000011000000101110010111100100111011000100101001010000010100
010110110001010011000101000110110010011010010011001001100100110010011000011001001000011001001100
001100110010110010110110010000011100001010111111011100011000001101110111011010010100101110000001
011100100110101010010011011110001110100001001000011010001110101000100111010001001100100010000111110
10110011001111010011001101001000010100101101111011100010011001100100100011011000110010100001101
00100011001110101000011101000011010000110100011010001101000111010001101000110100110100011010001101
101101000100001101001111010100111100001100100110101001101010010001101101000110101001101010001
10110100010000110100111101010011110000110010011010100110101001101010011010100110101001101010001
10110100010000110100111101010011110000110010011010100110101001101010011010100110101001101010001
01000101001111101010011110000101011011100100001000101101110011001010110100101011010101000010001
111010100000011110101001111000011101010011110100001110100011110100101110001011100010111001100
1011010100100100100101110000010011101001110011100110011001100110011001100110011001100110011001
111110101110110101010011011010101001000011001100100011111110001001011100010111010001001010011111
110101000010101100110101100110110100101110100110010000010100001101001100100110101101011010100
111010100100100100101110000010011101001110011100111001000011110100101110001011100010111001100
1011010100100100100101110000010011101001110011100110011001100110011001100110011001100110011001
111110101110110101010011011010101001000011001100100011111110001001011100010111010001001010011111
110101000010101100110101100110110100101110100110010000010100001101001100100110101101011010100
1110101001000100011101000001010001101100010110111010011111010100111101010110010011010110011001000
110000111101011011001011101101010111101100010001110111100010011011101010110110011111001100010011
011101101010011010001001100010101001111001011100011010011010011010011010011010011010011010011
111101000100001000111010000001011001110110010011010010011010011010011010011010011010011010011
10111101101111010011110110000111011010010101110101110011010110010110010110011001100110011001101
0011110000110100001111010110101111100110111010000010010111001110101101101101101101101100100010110001
10110111101001010110001001000001111000111000010011000101011011100001010111000011100101110010110101
10000100010101101001100100111100110110011110011101001111001100110011001100110011001100110011001
10000100010101101001100100111010011001100110011001100110011001100110011001100110011001100110011001
01001101001100110100001001101000010110011011101101010010001011010100100010110101001010011000101011011
01010110010011010111000101110111001100101100110011001100110011001100110011001100110011001100110011
1010101011110110101001110100011101000110011011011001100110011001100110011001100110011001100110011
010111000100110001010001010010100011001011001011010001000011000001000101011110101000010010110101
01000011100000111101001110111011001100110011001100110011001100110011001100110011001100110011001
101100010100111110000111010011101100111001110011100111001110011100111001110011100111001110011001
0000100001101100111110011011010101100110000000100100001001101110100110100100111010000010111000101
001101000000110010101010111001100010000110010001100001011110010010110011010000100100011110100101
0100111101010100010011110100000110001101001010100110111000101010001010001000000111100001110101010110
001001100101101000111101100100110101001010101110111010000110001001100000100111000101101101100010
0010011010101011011000011101100101011111101100100010011101010000000110010001011010100001000111111001
100111010111001010100101110010001100000100111100101011100010101100010101100010110011010100100010
011000111101010000110000010010111011110010111001100110011001100110011001100110011001100110011001
01011101101101000010101100111000110010010001010100011001011001110001101011011001101001010010000
000111110100001011000100010001010100011101100001010001001010010111010010010010101011101011001111101
11011001100100011101000111110011100010011111011001000100100001101000101101000011001100100100110
0001011110100001101000011101001110111001100111001001001100110011100111001100110011001100110011001
10100001100001011110101110010101000100111110010100111001110101111100111011010011010011111010000
000100110101010100100011000110100001101000111101101001100001000110011101100110100000000111010110
011101100011000110101110011001100000100101110100101010001100001100001001000101101011100100111100100
01011110001110111011110010010111001100110011001100110011001100110011001100110011001100110011001
10111001111101011000000110001001101010011011101011100011100111001110011100111010111001010000101011001
1001011010010101100111101110110000010011101100010011000110110000011011010011000000111001011110001
100110110011001011100011001100100111100001001010010000011100111001101011010111010110010010001110
1101010010010011000101000111001001110010011000010011110101100110011001100110011001100110011001
1101000110011101010111010010010010010001101101000000111101010111000110010001111011000100010001
100111010101000111011000101001100110011010100111110001110100101101001011001010100000011011011101
10011101001110000111000001100000100110101101111001110001010101110110001010111110001101001101010
0111010011001011101011100100110011001100110011001100110011001100110011001100110011001100110011001
0001000111000101111010001100110011001100110011001100110011001100110011001100110011001100110011001
0001000111000101111010001100110011001100110011001100110011001100110011001100110011001100110011001
000110110011001011010100001110110000011101000001110010111010001011001100001100100011011101001101
0101001011001011010111010111010111010000111010000111010000111010000111010000111010000111010001101
0100001010110101000010011000010010101011100011101001100001100101011000000010010111001100110011001

11010010010111100110001010011010011000000101110011011101111001011101100100011100110100010110110101
100101011011100111011100111010111000101100100100011000111010101011101010010000101000010000101011000
00010110111011001110001110010010011000000101101111000101101100100100100011001000011011000111000001
010101010111001110111011001000111011110000001010000101100000010110011110001000100001111000011101000
000110011101100111100001000111011100100000111001011101010000001011110101000010001101011101000010
01000110011011010000010110000101111100001000011101110001100001110101111010001110101110000100100
1010000001101011001001001110001100011110000110110110011101100110111000110010011100111000010010
1000110111110110000001011100011000001110100001011000111000110010111001100101110110000101001101010
1110100110100000001010111001110101110110110110100011101101100011111001100010011110000110100110
000110100110001000100111110001000101010000111100101101111010101110101010000100101100101101100011011
01011110010101101101100101000001101100110100001100101101101000010100100001001011101110101000111010
000001010111000101100001110110100011010111000001000111011100001001011100001111000010001101001011110
01101000001011111000000101001000111111010111000110110001010010101011010010010010100011001001101010
000101100000100110110010000001001101100000010001011000001000110011000110011011100011001001101010
1100100111010000001010011011111010010000110010110000110011110110001110110100011011110101101001
10100001100000100010111001111100000011000101110101000100101001000100110011010100011011000111001111
010100100101101010100000001010101110000011100110100101110111000000101010011100000011011001010
10000110100111110111011011100101110100010110100010110100010001001010001000100011001100100111000001011
01011011101001011100100010110111011010100111011001111010101010101101010000111011010000101101001
10000100111011010110001000101101011101010100100111101001010111010100100111110010111010011100111
11011001001000000101110110100100111001001001101010010000100100110000010100110100111111100000010
010010011101000111011001110000011011111010001101011001000110111100001010110011100100111001000110
0010011000011110010100111101110011100000110111110100011010110010001101111000010101100111001000110
0001010111110110100001001000101010101000100111100001011000100011001001011001100110011001100101000
101001011100100101001111001000110100000100110011001101010000100011011001001101100100111000001110
01111100011010000000110100101111001011100111011011110001001110011010011100100110110010011001010
11011110101110010011011101000101011010010011001100110011100111001110011100111001110011100111001
1001100110010000000100100110000011101001001001010110110011100111001100100110111001110011100111001
01010001101101011100111001
10101100011000101000111001110011101010111001110011101
101110011100010100011100111001110101011100111010101110011101
00100011100100110110001111110100010100000110111010110001101100000010111000110110110100000101011
1101111011010000110011100011110101001110001101101011101
001011010010001100111001110011100111010101110101011001101010010001100100110011001110011100111001110
010101001100110101001110011100111001110101011100110101011100110100110011100111001110011100111001
1101001001101010011100111001110011101010111001110101011100111010101110011101010111001110101011100
0101010011001110101010110011100111001110101011100110101011100110100110011100111001110011100111001
0011010011001111100101100110011001100111000110101100011010110011010110011001110011100111001110011100
010000111111001110010110010010001011011100001101100011011000111010110001011100101011010000100010
010110010101011101010101100111001110011010110011101011000101110010101110101011101010111010101100001
11011101100010100011110000101011000101000111101110100010001100011101010111000010010001110111101011
010111001010101110100000110110001110101111001100100111011011100001010100100011110011110010110101
101001011111010100010101010010110010001111011010000001111011000110010011110100100011000000101110
1101111101000000110100000100100110111011101010101000110101110010101100011011010100110111110001
00011010010111101110100111010111010110001110010111001110010001100001011000010001110000110100010010
01000110110011110010110010010001011011100001101100011011000111010110001011100101011010000100010
010110010101011101010101100111001101011100100101000100101010100110001110000011101010111010101100001
110111011000101000111100001010110001010001111011101000100011000110001100011000111111101011101011
010111001010101110100000110110001110101111001100101110110111000010101001000111110011110010110101
101001011111010100010101010010110010001111011010000001111101000110010011110100100011000000101110
1101111101000000110100000100100110111011101010101000110101110010101100011011010100110111110001
00011010010111101110100111010111010110001110010111001000110000101100001000111000011010001000110100
0010011000111110010110010100110001001110001101011000110101100110011100110000000010101100101101010010001
100010011010001010100100111101101011011100011010001110100100110100110001110101000111010100011101
0110011011101000001011000001011101111000111010011000010110111011110100100111110011101001000101111101
110011100111001001101001101001011100111001000110010100100010001101111000100110101111010100010001
00011101001000001001111000011001101001001010001011011100100111001000000001010110010111010100101001
11001110100011100101011010011010001001110110011101010001000100010001000100011100001110100110101011
10011100101000010101000101001100011100010000011011110010000000101010101100101001110000110100101010
01000110001010010011101110010100000001010100011100100111011001111010101110101110001001011100011
11010100110101100010100010100101011000000110001110110011101010111010111000100101111000110111010
001000101100110111001011001110010100100100010001101011001010100010110001011100111001100010001110
00010111000110011101000100100011001110011001110010001000110011100100010110001011000100011100010111
01000000110110010000010111001001100111010010010110111001001011101011001111100100101001010010101
1010110111001110100100011011010000010010001100100111011001110101011101011100010010111100011
1111110110100010000100010001000100010001100111001110011100100000100100100010111010111101011110101
0011001001001111111000011100001100001011000011000110011101011000100111010110001001101010010011100
10100110110010110100010100011101000010101100011010100010101100101101011000110111100011000101011100
1101111101000000110100000100100110111011101010101000110101110010101100011011010100110111110001

01100111010010010111100110001010011010011000000101110100011101111001011101001000111001101000110110
1101011001010110111001111011100111010111000101100100100011000111010101011101010010000101000010000101
011000000101101110110011100011100100100110000000101101110001011011001001001000110010000011011000111
0000010101010101111001110111011001000111011110000001100001011000000101100111100010001000011110000111
10100000011001110110011100001000111011100100000111100101101010000001011101010000100011010110110
000100100011001100110101000001011000010111100001000011101110001000011101100101111010001110110010001010
0101001010000001010110010010011100011000111000011011011001110110011011100011001001110011100111000
01001010001101111011000000101110001100000111010000101100011100011001011100110010111011000110101001
1010101110100110100000010101011100111010111011011101101100011101101100011111001100010011110000110
1001100001101001100110011001110001000101010000111001011010111101010100000100101100101010101100
011011010111110010101101101100101000001101100110100001100101101101000010100100001001011101110101000
11101000000101011100010110000111011010001101011100000100011101110000100101110000111000010001101001
01110011010000001101111000000010100100011111101101100011011001010100101101001001010001001010001001001
1010100001011000100011011000000010011011000000100010001100010001100010001100010001100010001111100010010
0110111100100111010000001010011011110100100000110010110000110011101110001111011010001101110101
101001101000011000001000101110011111000000110001011101010001001010010001001100110101000110110001110
01111101010010010110101010000000010101011100000110011010010110111011100000010100111000000111011
00101000010111010111110110100010011111101101001011001011101011000100010010011001101000010110000101110001
01101101011011101001011100100010110111011010100111011001111010101010101101010000111011010000101
101001100001001110110101100010001011010111010101001001111010010101110101001001111100101110100110111
001111101100100100000010111010100100111001001001101010100011110010011100000101001101001111111000
00001001000110010101010001001110010011101001101100111010101001001110011001100110011001100111000
0111101010110000100101100111101100000110110010011010010110110010101101100110010011011001011
101001100001001110101011000100111001001110101011100011010101110010101110011000100100110110100
101010110111101011100110111100110111100011010101111001010111001100010110100100100110110100
110101101110011100010100011110001100101110111000111011001001000100110100000100001101010010010000011
010000010101100101001000111001100010101000001110011101011111011001110011011010000011001000101
0111000010001100101010001100110001100111001101101100110011001100110011001100110011001100110011001
1001010010001101100001011101010010100100110100011001000110110001100011010100110011100110001001001
10101010101010101010100000010110010010100010110001001010111001011100101110010111001001001101101011
100101001111010001110100000010111010011101001101010100110011001100110011001100110011001100110011001
0011010100111111011010010011011101000101011010010010010000001011101101111100111100001111010100
101101000100001110010011011000111111101000101000001101110101100011011000000101110001011011011010000
0101011101110110110000110011100011110101001110001101101011101010110101110010111001011001010100101
000111000101101011001010001100110011100101110010111001011100101100100011001000110010000101000011
00110001101001010011010011100101100101110010111001011100101110010111001011100101110010111001011
001100011010010100110100111001011100101110010111001011100101110010111001011100101110010111001011
100100110101010000011100110100110111010100001110000010110100001110111000110001100110100110101001001
1011100011010010010001101011100011001001110010011100111101010111010111010010101100001010110000101100100
00000100010100111011001100101011001001001001101110101101100101001101110011011100101110010111001000010
001101110011011011000101001101110011010100111001010000110001101000110010001111000011110100100110
001101001000101110111000100001101100100110111001111010101110010100101000001110010100010000111000
001100011010000110011001010100000101000000110011110010101100101100101100110011100111001110011001100
00100100001101000001101111001001010110000110111110110110010001001100011011010110111010000111000100
00101001101101101100101110010011101101011011100101001010011011001101100101101100100111001000011000100
011011011010001111100100111011001110110101101110111000000011100101000110110000010011100100111110
1011110011001110001111100011100101100011010011000111010101110101110101110100101011000010110001011010100
010110110000001010001110010011100111010111010110101100011001001111101001001000011101110100111000101
110000100010011000111110010110010100110001001110110001101011001101110100010001111011100010011100011
010001001000001111110011100101100100100010110111000001101101011011000111010110001011100101011010000
010001001011001010101110101010110011010111001001010001001010110010100110001110000011101010111010100
11000011101110110001010001111000010101000101000111101111001000110001110000100100100010110111111
10110110101110010101110100000110110001110101111001100101110110111000010101001000111100111110010110010
1101101101001011111010100010101010010110010001111101101000001111101000110010011110100100011000000
101111011011111101000000110100000100100110111011101010101000110101110010101100011011010010100111011
111000100011010010111011101001110110110110010001110010111001000110000110000101100001110000111010
0010010010001101101100101100001011000010110011001001011011001000100110111101101010000101110011100
01100100111101110100100100001000100101101011100101101011001110110010100110111000010110000000111110
01001010010010001010101010111010100100101010101110111000010001111100100100111101010100001101010100001101
00100011000100110100101011001001111010101011011000110100011101000110100100110000111010100011101100
001110101100110111010000101101000010101110111100011101001100001011001010111011111011010010001011
111110111001110011100100110100110100101110011100100011001010010001000110111110001001101101111010100
0100001000111010010000010011110000110011010010010100010101110010100111001000000010101001011101010
010100111001110100011100101011010011010001001110110011101010001000100100001001110000111000111011
0011011100111001010000101011001010011000111000100000110111001000000010101010110010110011110100
010101001000110001010010011110111001010000000101010001110010011101010111010111001001001011
1100011110101001101011000101000101000101000110011001110110010011101100111010111001001011
011101000100010110011110010011001110010010001000110100001011000101110001101110011110011001000101
0011110000101110001100110100001001000011001101101100010000110011101100010000101001111010010001011100
10101101000000011011001000001011100100110011101001001010101110111001001011101011011100111100100101
001001101011011100111010010001011010000010010011011101000110001001011000110001100011000110101
00011011111011010100010000100001001001000110011010011100001101100000100101101101101011010111
110100011001001001111110000111000001100001001000110011010110000010011101011011011011010111
110100011001001001111011001000100110011010110001100110101100011001101011000110111000110110101001010
1111001010011011001001101000101000110011010110001100100100010001100110100001011000110110011001001010
111100101001101100100110100010100011011000001010110001101010001011001101000110011010001101010001010
11110010100110110010011010001010001101100000101011000110101000101100101100101100101100101100101001

00111010001011010010000110110001110111001000011011000001001001001100101011000100100111001011100
0010010000011101010011010111011100010100100001010101001110101010101111011000100010011001011010
10101100001010000011000111000001100001010000101011101101110111011001110111001000001100001010
011101000101101011111010001111001011010001111100001010000010010001010110011001110001010001111000101
1100100010110001110001111000000010010110100101000101000100000001001111101010001001001101100110011
101111000000011010100010110010001000010001011000010001110101000010001000111001100010001100001000010
1100100110110110001000000100010110101001101101101101001001000010001111011010111000111010000010011
00001011100001000101010010010011011100110011101110000111110100101111000000001101001100010011001101
1100101010111001011010010001001100010101000111011110011000010010110010100101001000010010001100100
01011101001111000101001100011000110100111101011011000111001110001011011010011100111000101101100
01001110110100000011011100111110110001110011010000110010010001010101001100011100110100110001101100
01101011000101000000100101010111010001111001100011101001001010101110111110100001100001001010100
11011100001111101000011101010101000110010011100100001010001101000110101111011011000010001111010
11111010000011000111000100100111100010100111100010100111000100011101001101100000100010101101
101110101101100001001011101111000101000010000101011110110101000100001110110011001101100011111100
11111101000101010110011000010101101110011010011101110110010011110100111001100011101100110000
110010111000100101101000101011110100010011010011000101011101000101001101111010111101100000011
11111010110110000100001000100101001100010100011000110001100011001101001011101101001011100011000011
0101101101010010110010000100010100110111011011011001110110000110100000100100010111010010010011011
1111001111101001100010000110100010101000001001110111010011110100011010111001100000100011011010001
0011001110100111001110001100011000111001101100111101010110001111101101110011000110111000110110001
11110111001100000001001001100101010010011001001100110011001100110011001100110011001100110011001
1111011100110000000100100111101110011001100000001001100110011011010111101000101011011010000110100
01000001101010111000010010011110111001001110100100001110111000010000011101001011001000010001100011
10000010101001001100010001010001101110101001011010111010010010100001000111001101100011011001101010110
010011000110010110011000011100011000111000110011001110001110101011010111001101011011000000110011001100
10011001101010001000100111100011001100000001001100110011011010111101000101011101000010101101001
001011001011011110000001001111100110011000000010011001100110110101111010001010111010000110100
10011100111000111101010001001101010001000000110001000100111010111010011101101001101101000110100
100110000011011101010010011010011110110010010100010011000110010101011011010111010110111100
101001011001101100010010111001100001110011100100011010001001010111001010001110011010111001
0100010110101001011101010110000110000001100000010101000110110000111111001001001111100011010001100
00000111000011011110010110101000011000110100001001100000110110000011011000001101101001001101
001100000110000101100101101011100010100110011001100001101001100100000110111010000110101101101
00001101011001001011101101010011101110000101011110010011000100000000110010110011100100010010101101
010100010010111001011100010111011011111000011101010110011101101011001111011000001111010000111100100
00010011000100101101010001110011000100110011001100110011001100110011001100110011001100110011001
0100101101000001100101011010100010011101100110110011011001100110011001100110011001100110011001
111111000110010101001011000010101000101101101010111010111000101011001100110011001100110011001
0101111010100111011100001100000011001010110010001110111000010101011001100001111011000101011010
100001001011011011010100000110001101001101001100110011001100110011001100110011001100110011001
100000011011101101101011001000110000110011001010100010101110111001100110110111010011010110110010
110001001011101000111100100111101000100010001110100011010111110100100011000100110100101100101100
0101001101011100011101001100101100100101101010111000111010010001101100011100111101101100000100000
10111111010000010111001100001110110000010010001110000101000001010110010100011001101110001011011
011111000100100101011000100010111001011010101000110111000011011100111000000010110000100100001000101
11010111010110010001001100001011000101010000110100010010011111010010011101010010111011101100010100
0000101100011000101101101011010110101101001100100010101100010011001010110100011001111111000010
0010110110111011011001100011010011101001000110000010010110000110101111011011110100111101001110100
01101011010111000001110101101100000010111011100101010111011011100111001001010110011101001110101110
10110001110011000100101011001000111000001100000101000110010000110101011001001011101011101100110011
101010111110011010010100110100011001110110101100110110001100001001011100001101000010101100001010101
010100011100010001000100010001110100000011000000110010111000110001110101011010011010010110100010001
11000001011001011111101111010110110101110001011111100011101100110011100011010100001111100011001
1101111010010111010101011000000110100011100000000110001101111101000100110100010010100011010111101
1010111001100110010001111010100010111010000110100111000101110001100101010100011101000100110001
111000001011000110110011100000101101011010001100100010100010100010100010100011010011001011001001
101001100110001001101001001100011011011001101101011100110010101111101110011001001001110100001
110101011101001010011010100011100111011010000110000111000011100011101001011010001101000110110
0010001001111011110011011010001011110101000010110011001000101001100100010100110110101110001100011010
0101110101000000101100000010001111010010010001110011001001010001001110111011000000100110100111110
0001110010111000110001011001010111011010000011011110110000001100010100110001000101110010010100011
01101000001001011010011100100100100110011101001111010110111100011110001100010100000101000100101
1011010111100100001110010110011111101000010010101110110001011100101000000011101110000110011101
11100000101100011011001110000010110101101000110010001010001001010001101101001110011001011001001
101001100110001001101001001100011011011001101101011100110010101111101110011001001001110100001
110101011101001010011010100011100111011101010000110000011100011110001101100101101000110110
001000100111101111001101110100010111101010000101100110010001010011011101010111000110001100011010
0101111010100011100001000111010001000111010011001110110011001100110011001100110011001100110110
010011100000111001111010011010010111101101101011100100111001101111101000000100101100111101010000
11101000110111000000111000101110101011011001111001110100110001100011110101110100011101010001101
01110001100011000100111001000111110001111000011101000011101100001110110000100100011011110
10011000100111010010111001110000111110000111100001101100001101100011111000100100011011110
1111101001110010101100100100010011110101100111000011101001100011101010100000100001101000001
111110100111001010110010010001001111010110011100001110100110001111010010001010110011011101

01110000100010001000110010111011001110111001000100110101110110011011000001101011011100010101001010
1101011011001101000010101101100100101001010011000001010010101011100101010010011001100110100001111
11011110100100111101111111010000001110101001100010111101011111001100110100100101000000011011111
00010111000110010000001011111010010001101010100110001000110010001000011110000110101010111101001
001011010100101001001101110010111001011100100011001011100110101000000100001110001111011100111
0001110010101101100100010101110000110100110001100110001000110010000110011100011000010001010001
00101110111011001010001100101110101001110101101010001010100010100111011010010010110100100111001
000110110000001011010100101001011100110001010101010101010111011000011100101011000101101100
111001111001100101101000010110100101111001111100111110100011010000110110001101110110101011010
0100110100010011001101001111001010001111010111101010000001000111101111011000100010001100010101101
0001111101000101100101010110110010000011100100111100011100101110010010110110001011101100110111
00010000010100110011000010110011001011100000101011100100001000100001100110011011000111001001100110
101110010110010010111011100101100001010110000111000110110010101100101010110111001001011110010101
0011000011010010101101101011100001011001001010100010100111001000100010001110011101110111011010000
1100110001101101011000001010110000111010100101000110111101110100100001100110101001011001100010011
011110111000001001110100000111010000011101000110100011010011010011101000110000100010010011001100
110101110111000110010000111001011101100100111100100011001001110001100011001001110100101001
000101010110101111100010011000110010100111001101010001110101000011010000101101010010100010111
01001101100001100110101100001011010101001010110011100110100111010111000110010111001101010010010
1000111011011000111000110011001110111101100010011000110001100011100001001101110100111101001111
00100111010000010100010010101001001110101011000100110001100011100001001101110100111101001111
00100111010000010100010010101001001110101011000100110001100011100001001101110100111101001111
1001000000010101101010001001010001011000101000111001111011001011110101110110100101101100111
0100101100001100110101100001111000110010011100011010010000010111101010001011110101001100100001000
101011011010111011101010010011001111000100110000001011101111000011101101100100010001000100000001
001110110001111100101001001011001100110010101001000010110001101010111000101001001101000100110111
0101010000001100100011001100110111000111110001111100011110010111011000110001001011000100101001
00110101000000011011100111000001111011000111100011001001011100111100111100111100111100110000010011
00010010011100000111000010010000001011101110010111010000110001011101001011001001001011011000110
11101010101110111000011101100101000110000000100100000111100100111110001001010001100100011101101
10110001110101100011011000001110000110100110101001000101110101010011010001101010010111000001010011
0011001100010011100010111101101110101110100010100110111011101000101101000010001101011100000011
000000101111000111011101100111101010110100101100011010110000110110101100010101000101010001111
011011100010110011001100110001000111001101100101110101100100101000000101011001110011001100110111
01000011000101101110000111110100000100111110111001101110011100001011000101101110000110100110010
1111100101110100011100100010110001100001000101001001101101101100011010110100101011100000010
11101001111100011111010111010100001101000001010000010110010101100000110010101100001110111110111
11010101000101100000111101001111101000001101010010010101101001011011001011101100101110000101
011000101101100011011101000010101111011001101110101001100000100110010110010010100011110111000010101
10110011010011100111011000110101011100110110110010110100101101000100110110010010010101011100010111
01001101000111001100001011110101000111010001101000110100001101001111101100111101100110110011001101
1001000100000101110001110011001100100001001001110000010010100010111101101010111110110101111001100110
11001100111011101110010010111010110010001101011011100110000010011001100110101101100101101101101
0110111101001110101000001110111111000111101001000111101011010110001001011011010010101101100010111000
100010001010100111110001100111010001010110001001100010011011000001101101010010010011100110011001101
10110110011001110011000010101100101110001101100110011001100111011010111001101100110110011001101
10010001000001011100011100110011001000010010011100000100101000101111011010101111101101011111001100110
11001100111011101110010010111010110010001101011011100110000010011001100110101101100101101101101
0110111101001110101000001110111111000111101001000111101011010110001001011011010010101101100010111000
100010001010100111110001100111010001010110001001100010011011000001101101010010010011100110011001101
1011011001100111001100001010110010111000110110011001100110011101101011100011001101100110011001101
101101100110011100110000101011001011100000110110000000110100000110010011110110001001011101000100000
10001110111001100111011011101000101010010011101001111000000101011011011001101110101000101110010
00001110101011000100100111101110101100101110111101100110001000100111110010011000101000100111110010
1111110100101100111101000101000111001101011001110001011011001110001100100100000110001001101
000011100110011101010010011000110011001111101000111100010100111001100111001100110110100110011001
010011010100110100001100111011100010010111000101101011101010011001011101100000100100011001011001101
00001111000111110011101110110100011100100110111000111010011100111011000101011000011001111000001110
1011101100001101001100010001000011111010001011101100110001110000111000110011001101101110
000011001001001111001110110011101010000000110100000001101000011100100001001011110100010001110100
111001110010100100110110111111000101001011010011111010100101011110111110100001100110001001111
110011110010101111010100001101111001011001110110011011011001100110111000100101101101111001
00001110101111011100001001000101100011011101001110101100110011001100111100001110001100111010101
10101101011100000001000010101111101011000001100001100001110010111011110101111001001101100110101
01100001000111001111111001110010011010100100101000110010100000100010010111010000111000101001110
110100101011010001010100101000000100110001011110111001101101110111001100100101001011100000011
000000010010101001010100000100110011001000110111101100100001110010101110011001000001111100110
111101000001010011101011101011000100011001000000110100100011010011111010001111101000011000111
001111010001000100101011000101100001101110010111001111101001111100110001111110110110
1000111010110000111011010110011000101100001001011101011011011001100110011001100111101001
1000101100101001010010111000011101010010000100111011001011010000010001100111100011011101011
1111010001010010011011001001001111010100100111101010010000010011001011101010010110101001010010
111111101110101000010111000001100110100110100000110001001101101011010011011101101100101100101100
01110010111100110001001000010011010011100011100110110100111001100101000100110100001110000000
111010011110001000101011101011010110010011110101101010010111000011100010111000101110001001010
111011011110001110011000100100100111010101001100100110010000010100001101100010111010101101001
01010011101000101000110001110101010000010000110000111001011101011110101111001001101100110101
01100011010100010100010100010100010010100000100010010111010000111000101000111000101001110

011011000100010001000100101100101111101000010011001000111010101110101001101111001010100100100101100
11001000110010011011110101111001010111010111100101110000110100110100000011000100010000101111000100
100101000000010100000100101110111101100000011000100010000101011100110110100001111110100111111000001
001010110100010011011011010100010101000001001001110001010100011000111011001111111000010101101011011
000110111001010010100110001100111000010101100101000010111100111101011010110001110011000010110000
11000010001111010010110011001110001111011100010000011010000001101000110100010010001100110011
111111010001110010010101011101100011001111010011010011001000111011010011110111101100001010110001
10101000010001111011010100110011110010101111001100001000111001101011110100011101000011110000001100
010001000001110011101100001001000001110001110110000010000011100100111000010111000100101010000111011
1100100000111000011001100101011001010111001001011100110001100011001111010111101011001001110011100
011001000111001110110011100010110100101111001110000011100000111000011100110101110101111111010010
1101011001001101010011100101100001000100010010101110111000101110000000100011101001101110001110010
010010111100101001110110011010000101100100100111100110101010101010010001101011001010110001000010
010001001001001100110000100010001000111000111011001000101011100100000110101001101000111100010111100
010001000011010000100100000001110000100100011000111101100100010101110000001101101101000101001111
111000011100100101001011010110011011100001110101000100011101100100010101110110100011001111001010
110000101111001010110001110010111000011001111011010010010010010010000110110010100101110111111001000
11010100001001011100101110000110011110110100100100100100100001101100101001011101111111001000
1101010000100101110010101100111000001101110001101110001000101101001010011101001000011110010110101
0110010001011100101011001110000011011100110010111010001100101101101101010011001011
110111000101010011011000110110110011111010110110101010010110010010010001100110111000110001111011011
0011110100010101100010111001100011110101110100111101000110110001110100011011010101101101011001101
110000011010001110110001010000000111101100101101000010010000001011011010001010100110101111011
10001100010011011111001000101110001001001010001001011011110110110110001100001010111100111001
11000010110000100011111001111011011101011010000110100110000110100011010100110110111000010110
001101001101110000100011110110010111100100100110000101110000100011110000100111011101110011000001
110001101100001101000110011110011110110100101001001100100011100110110000100011011011000010110110011
1100010010001011001100110000101100110010011000111001010000010011000000110011101101001011100011000111
0100000110111100001110111011110111000101101100101001111100111000010000100011000100111011010000010010
1110001101010100000010100000011000111000011001110101100011100000001000011001010110010001100110011
00111101010000100111111101100100011010111101001101000110111010001101101000010100100101001010
10110010111001100111100000010001100100010001100101011001011000010011010001101010001100100100010101
0011001101010100001100111011000101001011101101101011000100111010001101010100011001001000101101000010
10111010001110101111100110011010010010010001111110111010010001000100010101110110011111011001011
1100000100110011100010110101001100000100111001101101001001001101011001110011110011010010001000100
1001010011111000010101000001110001101010111000010001100011011101001000000110011001100011000111101
1101001101010001110011001101111100011000101101110000100100010001001000010010101011000110011001101
00000011001111001000010011111011110010010110011111001111101100010110011100111100001111011100
1011101000111000010001111011000010001111010011101010001010111010111101100111001110011010101011
1111101111011100010001000100011110101000101110101000110011000011101000101101101111011001100011000
010000010101000001001011010001110100000001000011010011101011100101100001100100001001001001100101011
0111110001101100100011001000001101101010000100110001010010001100011110011011010011110001011011110
1100001100111000101001110111001010011100100011110000001100011000110011110101111001111000111000011
011000111100101100011011001001001111010010010011110001100110110100110010011001001001101011101
10100000010101011101100010011101000110001001011011100101010000100110100110101001101111000001010
00000110000001011110101001010010100001010100100010011001001001100011100010001001000001100100011010
00011011101101110100000010000010011110001000001010000101000010111101010101100011011010101001
1100000111110100010010101101001101001101010001110101000101011001011100110011001101100011011011
001000100101100000011100101011001101111110100111010010101110000001001110010001100100001110111101010
000001100001111000101010011001100001001000111001011011000111000011110111101101000101000010100001
01100111101100011110001111001111010010101101001000110001100110011010000110011101101010111000001
11000001101100100000100110001001011110100110011001100110011001100110111010010011110001010101000
110111000001111000100111101010110101000011001110101100110101111010110110000011101001001000001101
01011010000001011001010010111101011000011001110101100101100111010111011001101000101101010100001011
010110010011111000111001010000101100111010100110101001101000110010110100011001010010110001011101
11000110010000011100011010110011101101100111011000111011000111011000111001100110011001111101
110000011111010001001100100011000001100000111000111001101101100111001010001000111001000001101010
00010111010101000110100000100110000110001001100111011101101110100111011011010101100110110101101
1001100111101010010101100100100110100101000111010100110110010001110001100001101000010001111010011101
11010111110110001001111001101011010101000001001101001010011010011001000101110000010110000111000001
10101010001000100110000011010011010101001110101101000010100000101101010000011101100111000000
110111100010010010000100110001010100001111110100001110001001011001001000000100100010101101101
11000110100010100000101000000010100010011110010111110100101110001011000101101111110101010100101
1111011111000101010000110001100000100111011100001100100001100100001010100100111101000010101
1110101111110111101111101000101010000110010000111011100001100100001010100100111101000010101
1010010011100010000101111011100010001001111011100010001011111110110010101110101011010101

00011100110100101001110011011110001011011100001101011011110110000110111011011011000000110001
01101111110110010101100100100001101001011001110110011001001000001010000110010100100011111011010000
111010101011010011100011010001010001010010110010111001010111100101000110101010000001001100001111
00101011001010111101101000011001100110110001111001011111100000110111110111010110111100010111
01011110001001011100101101011010110100001100010100111000101110001101100010010111101101100
01101101100010100101011100101110000010110110110100000001011011001000101000101011010110011001110
11110100111000101110100100111001010100100010001101010100000010010101100101011001011100100001111
0101000000110011100100100000110110101110110100100111000011011101001000110110101110100010100011
011000010101110100110011001001001110110011110100001101100110010101100110010101110010111001001100
10001101011000100100001100011101100111010011100101100111100010010110011110001001011010010101
010011001110110011101101011110110001011111001110010011110100101110001010000111111001101110000
11001111111000010001100100010011101110111001001101101010010010110110110100101101000111011101100
111000110000000100010111000001101111010010011100101100101111001101011000101000101010000010001
000100100110010100101001100001100011000100010001000100010001000100010001000100010001000100010001
00000110111111001000110001110011011101101101100001110000001011011000111110101000101001110001111
010011000010101101001101010100010111001011100010011000101010100000100111011000100010001110100111011
0001100011010110000010100010101011011000001101010111010110001011011011100010110001010001010000
001101011010000001010010101010010111001000011100110000111000101000101000111000101000101000101
0001110010111100110110010011100100101000101000101000100000010111001101011101100001011100101110
10001011100010011100100111010111010111011100000110000101011010011000010110100001100111010111000
1000110000111010101100110000000100010111000001100001000100000011000010100101110001001001111
10110000001100100100111100101110011100110101100101100100110011000001100110000011000100101001
010001110101101100101100111000001011110011010011101000111010001111010000110011110110000
00001110001000001110100001101010111001001001110010111010001110100011111010000110011110110
1110101100010010100011100110101000101010010011110010010011111000111010000011000001110001110010
001100101000110010010001101100100111000000100111001100000011111100010110000110110110011001001
00011001010001110010010011011010110101110001000100011001010100001110110110010010011011010001010000
1010110111101100011010110010110010110001011001011001110010111011100100101010010110011000110000
111001001010110010011101100010011101101000100110010011100101110110111001001000100100001110
11001100010011001001100111001101100110011001101100110011001100110011001100110011001100110011001
110011001100110011001110000101011110011011000100110011001100110011001100110011001100110011001
000000101011010100101010100101011100110011011011001101100110110011001100110011001100110011001
100100001101000000011111110000001100011001001111101000111000101001110000011101001000011100011001
000011010001011100100111000101001110101000001010011101100111101111001100000010111010110001001011
11101101101001010010100110100010000110000001011101010011001100110011001100110011001100110011001
11100110110000011111010111101011101001101101110010011100111001010110001001100000110100011010100
101101110001010001101101110110110100011001001011010000001011100110001100100100011000001001111100
111110001011010001110000101000110001001100101110000001010000011100111110010010011011010110110001
11110001011100000011101011000100111001010011110101101100111001011100101100110011001100110011001
011100010101001110110001011011110010100100110111010000001011100101101111000011010001000011101010
1110011100001111000111010000011000010110100010101101100101100110110111010111010100001101000100110000
1100111110011101001010101100110001100010001000111010100110011101010011001110100110110011001100110000010
11111100111011011010110111001100110111011001110011001100111001100111011110010011000100110000110011
00110001100011101101101000010111000110001001110100011110101110011011010000111000010001011100111101
00110101000011001101100010110000101011101101111000101110000011011001000100101101011101000001010001
0110111101101110110100000011111101110010011100001011101001001110100010010001111101000011100011100
111110001101110100000011001011010001001110101000111101001011000101100101100101100110011001110010
1000110100101011010100001101010101001010111010101111001001001000011111000011110010100100111001
00001000110111001111101001010110010001100010001001010010011100100010000111111101000011100001010100
101011010010111000010001111101010100011100111000110000000010011011001011010000000111111010000100
1101000001111000011011000110000111011011001100110011000000110001001100111001101011011000101010010
001100010011000011010001101100011000111110101111000100100011011000110110101100111001000001001111011
0000110100011011000110010000010110100001010010010100011011000111111100000101000011010001010110011
100100010110111000111000100100111001110100000110110000011000001100100111011001001110110010001000
1001100011111011010000110010011011011011000000110100011101001100111010111011100101000100010000
10101110111000010110010100100011010111011101001000101010010110100001010110110100010101010111
01011001000110001110011011101000111101011110101000001011000111110001011011110010110001101010
0110101000010111100101011010101001
110101101010110111100111000110001
010100110101001001111000011001110110100001110001011011101100101011011000110010110000101110101
0100010011110100101111011001110000111001110001001001001001001001001001001001001001001001001001001
000100001001001011000100100111110011101100100010100100100010010110010010110110010010110110010000011
00010000111010101100000110001011110110001001011111011011100110110111010001111100100001110001
0101000111011100110101100101010000010110010110000101011100101100001011101011011010001011000
10110100100111101011100011110110011000100110011000010111100100000011000001011000000011111110001
0101001000010000010111010001110110001101100011001001111001110010010100101101001011010010111011
00111101010111010000010111000000101110000011100110011001001001001001001001001001001001001001001001
01101001101010010010111000011001110110100001110001011011101100101011011000110010110000101110101
0100010011110100101111011001110000111001110001001001001001001001001001001001001001001001001001001
0001000010010010110001001001111100111011001000101001001000100101100100010110110010010110110010000011
0001000011101010110000011000101111011000100101111101101110011010110111010001111100100001110001
0101000111011100110101100101010000010110010110000101011100101100001011101011011010001011000
10110100100111101011100011110110011000100110011000010111100100000011000001011000000011111110001
0101001000010000010111010001110110001101100011001001111001110010010100101101001011010010111011
001111010101110100011011000000101110000001011100000111010001110110001111110001011000000101011
0110100001101010101110111001000110011000110010001101100011001000110110001111110001011000000101011

010000001100000010000100100011101001110010101100101101101011010101100100110101000011001110111011
1000001110010011110101000001110001011100011101000111010001001100000110111101101110010011010100110010
1011001000110100101110011100000001000110110010101100101111001001110001101100001101000000001111101011
111010111110100000011000011010000110110010100100110011001100100111000011001110111011010000110000
10110001101101011111010001111001101110100001100111101001011010001100100001011000001010000100100
0101010010001100110001001111001001110100000100111100110110010011100010000111110101101010111001
1011110001000001110001111001011010010110100011110000111100001110000101100011011001100110100001101
000001001011010000100011100000110001001011110011001000111000001111100100000101000001011110100111001
00110111001101110011100010111001011100000110100001011110101100101011010011001010111010010000010100
01010100010101000010001111000110111000011010000110100011010001110001001100001001110000110111
1011011000111000101111001000100110010010100101001000111110000110011111000111011001110110111111100
0110110011100101010001010110110100001001101010000111011101100110110001101100011101100000111001000
010010110010101100011101000010001111010111101001111010011110110110110011011001101000011
001100110101101110000111010001110100110110011101001111000111011011101100110110011011000011
001111000011110010111010001101011000100101111001100011011100010000000100011011001001010001110100
000100111010101101011011010011100101000000110001111001101010011100100101101000101001111100111010
001110000011100000111010001111010011110100111010011100110110011011001001110100011100110000010100
01100110001100011101001111010011101000011010000110010111010001110110011100110110011100110000010100
1100000001000011110001101100011101000110010001000100001101111100111101101111011011111110000101100
011011001010110011100101000011010001110100001001101110010100100011011000011001111100111011
101110000011011010110100011100000111010011111010000101100010011000100110000110100000001111011011
1011101110111011101010000001000100010001111010010110011000100110100100001000010000110111100011001
10110111001101101011100010111011101111001000000100000000111110011111010111111000010010001011100
1001010010111100101111001001010001011100001101000010010000110100010101000111010010000100011101000101
010000101100000101000001010000110100010111001000101011001000100110100111001001111101000011101
000111010001010011101100100100010010111110111100001110101011101101110111011100001101011011011
1011010010110011001101000011011100111010101110110111100011101101101110110100001100101011010011
10101100000101000110010010000100010111000000001110011011010011001100110101001110010011110111000001
110000110100001111000011010000110100010101001010011011101001001010011110100100101001110001100011
11110011100101110000011101011000000100011010010111001111001111001101100100100001101111011101
1011110100111101100000101000011010001010100011011000111100100011001000110011101000011001111010011
0110001100000010110100101110101101000011101111000010110001101100010111000000101110010011001010110000
0011001000111000110000001100100001001100010001000111100000001011100100110011001011101011001010
11010010111010110001001100001110000011101010000011100110010000100011110010000100011111011011010
1011011100110101101101110111011001111011000001010000010011111010111010111001101001101001101011
1000101111011100001011000110010010000100100011001000010010010100101110011110101001101010111010110
01010011010011100100010000011011110100111010111010001110110011110000111101011110001111000111100011
1110001111100011111000000110000110100010110001011000011110001111000111100001111000011101101110111
1011010000110010001100010011000100110011001101011011001001111010100001010001001100011011000111100
0110110001001100001110100001110000100100001101000100110001100100011011000110010001100100011001000000
1100000001000000110000100100010001000101110001100100010101000011110000010011111001111000111100011
11101011111000111110011111000111011011100010101000101100010010011101010110101110101100110110101
1011100110111010011111001111101111011101001111010011101000111010011011001101100110100110101
01001011010100110101101101100111000001110010011100100111000101101100110110001101010011010100110101
10110111101110101011111001000001110000111100010011000011110000010011110000110110101100010011010010
10100010100110101011001011101011001100111101110011000000100001101000100100010011000100110000111000001
1011110011100111001011101000101111011011000101011011011011011011011100111000011100000110111101
1011010110101101101001101100011100010111100110000001100010001000101110001010100001010111101011101
0101101110011010110110110001110001011110011000001010001001100011111001001010010011100100101001100
001111000111100011110000111010001110000001110110110111011011101101001101101101001101100111100
0001111001100000101000100100010111000101100000110111100011101000110111001110110111001110000011101001
11110010000010100001110001001100010011000100010000110100010110000011100000111000001110000011100000
10100000000111110011110100111011001110010011011100110101010101010011010001110000011101000111010001
1110010111110100000111000100010001100100011111001000010010000100011101000101110000111000001101111
1101111000111101001111001011110010111100101110010111001011110100111101101111101101111101000001000010010
000111100010101000101110001011100010001000111111101110110111100001110110111100001111011011111
1110000100100010001000101110001101100011001000101110001000100001011000001110000001100000011000000110
000010100000011000000011110101110010111001011100010111000011100010111010111101110000010100010
0010001100100011011000101010000101011111101110010111010011101011110000111101000111101000111110
010111001110010011110100110110011001100100111000100100001111000010010000111000010110001001100011
0010001101100011011000100110000100011111010111011001110001011011110111000001110101011110110000011010
001111100101100110011001100010010010001011110000110111100011100011100011100011100011100011001100101
001001110110100100110011101001110100110011100100111000110011000111000111000111000111000111000110010
000101100001101000010010000001011111010111011100110111000101110001011101110000010100010
0010001101100011111000110110001001100000111000101110001011100110110110011101100111011001110001101
11100110000011000100110001110100011101000101110001011101011101011101110011010110110110011010011011
010111001101110111011000100100011001001001001011100100110010011100100111001001111001001110100011011
1111001111011011101001111000011101100111001101110000011011010110101101011011011011100111001101110
101000001010001001100011101000111100011001000011001111101011101000110110001100111011001010110011101
1011000111001101110101000000100001101000011010000111000001110000011100000001111000111000111011101
010111010001110100000100000110000110100001101000011100000111000001110000011100000111000001110000011010
0110101010000010100001000011001111010010111000110110011101001110101011010100110110001110000011010

10100001111000110010001110100011011000101010000111100000111000000011111001111010111110011111101
1111110000000100000000111111100000010000001000001110000111100010111001000110010101001000100110
01100101101001000110001010100000100111101001110100011100000111001001110110011111001000001010
0010001000110110010000100100011001000110001111100010111000011110000010011111001111010011101101101
0101110100011101011100001111001000000100001001000100010001000100110001001100001110000010011110101
11011001110000011010110101000011100000110010011101100111011100000101000011100010110000111010001
11100011101000101010000100011111001111000011001001101101011010010110011101101000011010010110110101
11000101110110011110100111110100000000111111011110110111010101101011001000101101101010100010100
01010100000101010001011010011000110110110111011001111110000110100010111000110110001011000101110
00100010001001000001010000000111111011111101111110111110111110111111011111011111011111011110
01011101110110101110100011101000111010101110111011110010111101101111101000000100000111000010110
00011010000111100010001000100110001010100010101000101010001001100010001000011010000011100000001111
01011110100111100101111001011110001111101000001000001010000011100000101000000011110101
111001011101001110000011000001100100111001001110110011101110000010100001010000110110001
0110001010100001011000000011101001110101011100110111001001110011011101110111101110000001000010110
00011110001000100001101000000101110110111010001101101011010000110010001100010110011001101011011100
1001111010100000111000101110010001100101100110001001100010011000100110011001000110001001000000101
11111000111010111010111010111101011110000000100000001000000011110011110001110001111001110101
11011101010111010101110110011110010111101100000101000011100011001001000010010100100101101001100010
011000100110001001100010010111001011110011000100110011001101110011101101000001010001010100011101000
10101000001001101110010101100011101000110011111001111000011000110110111101101110110111011101000101
1101000111011011100101110100111101001110011001110011001110011001110110011011001101110110001011
100110001001101001011100010111010100001010001000100011001000110110001011100001110000001011101101
11010101110001011011101101110111000001110011011101110111101101111101000000010000000011111101111
0001111000011100110111011011011001100111011001100110011000011011000110110010001100110011010110110101
110010011101100111011111110000011000001100000111000001100000100100000001111001111011011110011101
1101110111011101110111100001110110111110100000101000011010001010100011011000111010001111000111010
00101110000111100000100111101011110010111001001110010011100110111010101110010111101100000
001000001110000101100001011000001110000000111001111000111100011110001111000111100011111010
0000011000010110000101100001001000001110000000111100111100011110001111000111100011111010
0000011000010010000111000011100010011000011010001110011001100110011001100110011001100110011001
0010000100100000001111000111000011101000111000100110011001100110011001100110011001100110011001
101010011010110110110110000011100100111010101110010111100011111010000001000001010000010100000
0101111110111110101110100111011101101011101000111010001110100011101100111100001111001000000010
00010010001001100011011001001100101010010111001110011001100010011000100110100110001111000100100001
011000000101111010111010011100001101110111101101110110110110011101100111011001110110110001
10100001100100011000010101110010111100101111011000100110011001101100011100110111101010000010100010
00100011011000100100011001001010001111000101110001011100111100011110001110001110001110011011001
011010101111011101100001110111000001110110000011100010010011000100100110011000111000111000110110010
00100010001000000011110000111000001101010011001100110011001100110011001100110011001100110011001
1110010111101100000011000001110000100100000111000000101111100111011011101110111001101110000011011
0101101011011010011010100110101101101101101101101110010011101100111100011110001111000111101001
1110100111101001111010011110010111101001111101001111110100000110000011000001110000101100001
11100010011000101110001100100011010001100100011001000101010001000110000011100000011111001
11110001111010011110010111100001110110011101010111010001110011011100100111000101110000011100
00011100010111001101110100011101110111100101111011011110001111101000000010000001100000101000001110
0001011000011010001000100010011000101110001100100111000111100100011110010001110010001110001110001
10100010111000101110001010100010001000101100000100111110011110110111100001110101011101000111001101
110011011101000111010011110010111100011111100000101000010110001011000100110001001100011100011
0110001100100010111000100110000111100001011000001110000011000001010000001100000010000001000000110
0000111000010010000101100001101000011110000111000011010000101100000111000000101111101111100011110
010111011101110101011110011011100110111001001110100011101000111010011101101110111011110000111100101
1110010111101001111010011110100111101001111100001101100111101101110110011110100111100011100011100
00011011110110111001111010011110100111101100111101100111101100111101100111101100111100011110001
000110111011011100111101001111010011110110011110110011110110011110110011110110011110110011110001
10101001110011100111001110110011110110011110110011110110011110110011110110011110110011110001110001
1010010011100111001110011101100111101100111101100111101100111001110011001100110011001100110011001
111100011101100111000001101100011010001101100111011001100111011010001011011001101110111001101110
000111101101111111000001010000100100001011000011010000100100000111000001010000000111110111110101
1111000111101011110001111000111100011110001111000111100011111000111100011110001111000111100011110001
001000100001111000010110000100100000111000000110000000111110011110101111000111101101111010011110
010111100001110111011101110111011101110111011101110111011101111000111110001111100011111010111110
000011100000101000001110000100100001011000010110000101100001011000010010000100100000111000001010
101000001010000010100000101000001100000111000010010000101100001101000011010000100100001001000001100
0010001
00000011111001111001111001111001111001111001111001111100111110011111000001100001001000011100001110
11100000110000111000011100001110000111000011100001110000111000011100001110000111000011100001110000
0010001000011110000101100001001000001110000001100000001111100111110101111000111101101111010011110
010111100001110111011101110111011101110111011101110111011101110111011101111000111110011111110
000011100000101000001110000100100001011000010110000101100001001000010010000100100000111000001100000
101000001010000010100000101000001110000100100001011000010010000101100001101000010010000100100001101
00100001
110100101001001001001001111000110110001010100001111000100100000010111110011110110111100101110011110
1110101111101000111001111011100111101110011110111001111100111110000011000010001000111000111000111
1010111111100000010000001000000100000011000000010000000111110111110011111001111100111110011111000
111101101111010011110010111100011110001111000111100011110001111000111100011110010111101001111000

00110000001100000011000000110000001100000011000000101000001010000010100000101000001010000010100000101
0000010100000101000001010000010100000101000001010000010100000101000001110000011100000111000001110000
011100000111000001110000010100000101000001010000010100000101000001010000010100000101000001010000011
0000001100000011000000110000001100000011000000110000001100000011000000110000001100000011000000110000
001100000011000000101000001010000010100000101000001010000010100000101000001110000011100000111
00000111000001110000011100000111000001110000010010000100100001001000010010000100100001001000010010000
1011000010110000101100001011000010110000101100001011000011010000110100001101000011010000110100001101
0000110100001101000011010000110100001111000011110000111100001111000011110000111100001111000011110000
1111000011110000111100001111000011110000111100001111000011110000111100001111000011110000111100001111
0000111100001111000011110000111100001111000011110000111100001111000011110000111100001111000011110000
11110000111100001111000011110000111100001111000011110000111100001111000011010000110100001101
000011010000110100001101000011010000110100001101000011010000110100001101000010110000101100001011000010110000
101100001011000010110000101100001011000010110000100100001001000010010000100100001001000010010000111
0000011100000111000001110000011100000101000001010000010100000101000000110000001100000011000000110000
00110000001100000011000000110000001100000011000000110000001100000011000000100000001000000010000000
1000000010000000100000001000000010000000100000000111111110000000