000110101011000001001110110100

111111100001100001100000011011000011000110101110001000000110010
111101100100100110001000100011001100111100011001001101010100110 1
100101011000011010110001000111001011000001110100010101011001001
111011011110101011001100000001100011010010001100101111101111
101000100100000011010001010100000101000011010001101111001000 11
110011001111001010000111100100101010010110010011011000111110 01
110001001100100010000111000001011111011101001101101100011000000 1
110000100001000100001110100000010011001000110111101101110100 01
101101001011001100000111101010100000101101100010111000111111011 0
100011110100011100100011100110101001011011110011011110010010010
10011010111100000100111111010111100100110010111111110101011
1110000101111011001000110001001001110111101001001010100110 00
110011000110100110000110100001110110101100111010000010110 10
1001110010001110000001011111110000010011110110101111010000011 110
1100001010110100011000000010010011001110110101111110000011001
11001101000110010110010000101111100000011101110110001101110010 0
11001001101100000010101110100111100100100100111111100100 1
111101100111110011101001110011111101101101111101000100011101100
100000110000011011101000011001101000001110110000101001001110 110
101111111001000000100111110100001100000101001011011001000001 1
101011001011001001110011100100010111000000111100110000010101 11
1001000011100011011001000111011100100111011110000011000000
1001010010010001001100100011000100010001101110111001110010010 1
11110000001110110011000000011110001100100111000001110111010000
111101111011010101110101001011001100001001000110011111110111010
10111011000001000100011100101110010111100010110010 11
1111100011110111001001101100000000110000100110111101011111110 00
1101101001100000001001011001001011101001011110100111100010110110
110011110110111001110110100110011000111010001100011011001011011 1
101000001110001011011010001000100010010111011110110110010011
11101000100010001100001110100000101010110001001001101100011 1100
10010001101110100001110111111001000110101110000101111111011100 1
11110110100000101001110100111000101010111100001100111000000 11
111010001001100100010011010000111100000011110010001101010 11
110111101000000100111010001001001101100111011111011010110100001 0
111000000000100111001110000111000010111101000111010010101101111 0
100100101100001110000100011101000101111110000101111010011101011
101100000001010101011000000000111100000011100010011010000101101
101110001010111100111101111010001010001110100011110111010101 0
101110000011101100111000110101000110110101101011110001010101
1111100001111101111001000001101101001000111011110111100111 11
100000011011001000010001111110001100010011011000111000001111110
101101101101101110100101000110100011000111100001001110000110011 1
101110110010001111100001101100101101101010100100111001011011 11
111111100100010110000010100110110101000111100100011111101100100 0
101110110001010111110000000100001100111001111010001100000010 00
111100010010111011111011001001101100011111001110010101100100 101
100010100101011101110000111100010010110100110000101000110110100000

11100111110110011001101110011000100100011101100100101110000
11010010101011011000010111101100101110100110010110010111110110
10101110111101110111000100000100101000011010000011111100010110
11011011100100101101111011101111010000110100000011011101101011
10000001001110110001111110100010000011001001101001110110001111
10010000011001100010001111011100011010000100101000110000010111
10110101111001110011100110000101100110110101000110000010111001 00
11011001011001000011001110100001101001111001011101111101011
11010010100010010010111011111000011011100100011000011101000111
11011100001010001111101110011100100000000110100001100000010111 1
11010010100000100001110100000100101101101010110010011100 1000
10010111010011011100001010011001101110100001110111100101001110 10
11111000110111110000010001100100000100011111001000101111110 00
11010101111101111000001011010000111111101001100000000000110101
10011111000101100010011101000010111100100000101111000010101001
11110010010110010101011010111101010100110000110011100110101 11
10110011101000101111011000100110011111011000000010111110110110
11011110100101110111011000111100000100111010001010011100000
10010110110000010111100001011110011101010001100110101010011 1110
11101000100001111010001100111011001000001101110110001010000000 0
10111011000000010100011000010010101111111100100001011001000111 1
11011100000000111100000111111110100101111001110001000111100 10
11111010010011001100100110101001011111001101001101000000011010
10001001011101011101001000000100100010011110001010101111110000 1
10000001100110011010001111001000001011010001111110000000111
10011111100111001000100101110001000001111000100111110100010110
11000001110100011111101110000111011100010101110000010010100001 0
10011000110000000110111100001100110100000111010110010011110011
1111110010001100000011101100100101001010000001010010011011011 0
10110001111110001010010011110001110110010001001111000110 00
10000111010100101101100011111101100010110001111110101001001111 01
11100010001111110101110001010100011001110000110100011011101110 0
11111101010111110011011101100111110110101111110000101111100110 1
11100000110111000110111101100110111011010010111001011111111001 0
10011000100111010111110011001000101110000010100110111011111110
10101101000101010011110100010111100100100110100101010010010100
11101110111111101001111001101110110011111001011111100000111111 0
11000110000001101101111100001110110111001110110010101111110111
11000011110010011101111011100010010011010000001101001011110 0
1111011100010001100001011010001000001000010110010011001101110 01
11111111011001110100111100110110110101111101101011111100110111 1
10000011010010001000110100011101011110100101110000010010100011
11100000110010001100011100111111111111110010011101010101011011 01
11111111010110111111000011111110011011110100111100100111111000 1
11101011111001000011111000100100111101110100001111001011101111 1
11001101000011111111000000100110010000111111101001000110111100 0
11011000110010011000110100011001010101000011100000100110110 00
11001001001110001011111100000011010001110010010000111
10110010001110011101011110111001110011111011111100111000011 00

1101011110110100001101111000010111100001100001011001100111 01
1110110001001101101000100010001001011001111110000010111000001
1101110001101100000011000010110001100110011001111111111001011
1101101111001101100100011000101111000011000111000001001001111 01
1111011110001011100110110010110010110001101100111101110111110001
1110010001001011000110110010100110001000111111001000101111110 00
1101111111110010001110111100001010000001111101011111100111001110
1110110001011011010011110010010010100111000000111000000100010
101000010111010010111010010111100001111100011011011110110000 1100
1111011101010111100100111000110010010101101101100110011011111 0
1101011111011010111110011100011111000001101110110001010011011010
11010011111100000001001010010111101011001001101000110110110100
1100000101010011010001001010111111010011100110010011101111001
10011110010110110100100011011100110011101111001111111000001110 11
1001110100110010110111111100001011001110110100101001101110011 01
1010111011110010001111101101100001110000001010101000000000110
1111000101011010000000010000011001101011111001011100010111001000
10010101101001011010011000000111001100100011111011011001101111 1
1110100010111111010010101101000101010110111011010010110101111100
101010011011100111001000010010111011111010110000110011110000101
11011000111011000100001001101100010110001101000011000111110110
100100001010001110111010010110110000010101111011010101110011
1000110111110001011111100011110011110001000000110000110011 00
11110000110111001101001101111000100111001100110110001100 10111
10100101000100100100101011011100110011110011000111000001011
1011110000000100111101101100000011011000100100011110100111011 01
1010011010001110100101001101101100000011000000001001111000101 00
1100100011000001001010111000101000111000011011111100110110110100
1101100010010011110001001110111100010101000000110101101001101 11
1001000111011101010001111100101110111110001000010110001000 10110
10011111001010101100110010100000000111001001101010001111101
1110011111001101100111011100111011100111110100011011000001110000
1001110110110110101100111100010101011010000011110111101111100
1101010011100110110011100111110101000110001011110110011101110110
1101000011011011100101010110111000001010110100001100110110010001
11010111100000111101110001000000011100101111111111110000010
10010011011001011100001011001110000100011101100000001111101 10
101010011010001011101011111101001110111001000111100000011100 10
1100001011111110000010011001000001001111010101100001110001110 11
1100010101101110010010110010001000101110011110000111011001 10
10101101101110010001010011001001111011110110010000110100001110 1
1100101100100101100001011010011111111000110110001000011101001 10
1011001100000100010111011000110001000011000100110110000110001 01
10001001111111100001100011100011011010001101101101001001000000 01
110010110101111010000110010101110001001001100010001010111010001
100111011100100010100111111001110110111101100001111000101011111 111
1010101001110010001111101111001000000110000000110111000100000 10
11101011010000011101111100101011001111010000001101100000000101 00
1100011101000000011111100001101101100111110001011101110010001

100000000000110010001101000001010011111001011100110110000010010 0
111111001100111110110000100001001010100101110100101100011000011
100010000001100000001110111110110110000111001110001001100011 0
110101111011110011111000111110111010001011001001000001111100011
110001110001010100010010001011011001100101000101001111111010011
100011101110101010000101000011101000011100111100101011111011
100010111100111001111101001110011100010101011011011111110010 0
101111000111011000100100011010001000100110100001111011001001 11
11100010011111100011101101011100000110100110110111111 0111010001
11100010011111001011101110111111110111010001010110000010100110010
110011011001111101001000011001000111111111101000110011111111
111011011010110111111010111001000110011001101110000111101 01
111110100011001111101100011011011111000001111111100110100 1110 0
110110001100000100010101101111101001101110111110000111001110011110
111110000111111001100111101111001011011011110000100111010010000 1
100101100101011001000110100001101110111101111111010001000001 1
1111000001010011101111110010001101010111101001101101000100100 11
1000111100100100011111000101111111001000101111001010001101101000
101001011001010011011111000111011010100111110110110001 11110100
100101111010001001111110000110111101000110011011000100111100
101101100100010111011001001101110100101110100011101000100000 1111
11010101111101000110111111001011110011000011100110101011100 1111
100111010010001001101100101101100110100000001110000011101011 0111
101111110001000000100000010100111011110111001101000011001000 01
1101000011000111010011111110100001000001101100010011100001011
111001110011100111000101101111000101011110110011110111100111011
101101101111111000001111001110111011000001110101110011101101000 1
100000110000000011011000010011001111011101100110101110000 10111
100011011010101110111001001101110110000011101110100100101011100
100100101000011011001011110111110100111110110000000111101110010 1
110110110111001101101111011100100001110100101011010110111111011
111110111010011100111011110000001011011011001101011000001101000
101100111011010000010110101010101011000100001101110100011100
1001011110111110101111101000101110110101011001001110001100111
111110111111000010000100001010111011111111111011110010011 10
11100111010111100111110001111110111101011111110101100111101111 11
100011111101000110001010011000101010111011111110000011100100101 1
100001111111100111110010001110100010110010000000001011001101000
111011001101111000111110000000011111101100101100011101100011 11
110011010101001011001101111011111001011010110111100100011101110
10111000100111000011111101100011101010010101100010011110100 0
101011111100000000010011010100001011011000100010000001101010 00
111001011111111100100011000111110110101001000111010011010100000 0
110011001111111010011001101100010001001001000101111110011111111
10100000001110110110011000011111110001110110001111010011010 0
110100010111110000011101001110011001111001001110011011111010111
110110001111100000100110000001000110110101001101110001000110 11
100010110111101000110011111100100100100111100011011111101010010
111111100100100011111101010110011100100010110110000101101010101

110111000001000011101000110101110001011110001000110001100011011101
110110100011000100110111001011001100110001111110100001110110101
111100010001010011100100001001100110011101000010000101111101101
111100100010001011100010011110001011110001110100011000101101010
101100110011100110110100010000011100100110101110010000011001100
101100100010010111000101000111010000110100001110110100001101110
111110010101110101011100110011100101001111010000000101111100000
111001000101001101111011101010011111001001110001001111100010010
111101000110010000101111000101110010010101011010001111111111011000
111000100000101111011000001101011010011101001101000001101001010
110110100000100111010111011100000010010001100011100111010011000
100011101000001001010010111010110000010000001000100010101110110
101001010101011010111001101100100000111010001110010001110010011
111110101110001000100010001000011001000000000101001110100100
101100100101100011011110000000100001010100100100100111101011
110110111001000100111010100111000100111111110100100100101001
111100010000100001100100010100100101101000010100110001011110101
101011111100001011111101110011111000110101101100110011011110111
100000000000011011001001010000101110010010010010111001010100
100110111101000011011001010001100000011000100001011010101001011
101100110011001101110110100101101000000111101000010001100100101
111101100100111001011010011001100010110101111111011010010001
101010111101110100001011100101100000100010011110110001111100001
110110011011001010001100011111101100110110100001101000110001001
111101000001000111010001010001011100100011010101101111100100101
100100011010101100001100100101001010001001110001100110011000001
111101111110000101110000000101100111000110001001000100010011011111
101010100010001100110110000010010010001100001100110010000010111
101110010011010100111000001000000011100000010001000100011011000
110011011001000110001011010000110011101001001010000101001010
100111100000100110111101111100011000110001100110111110000011111
100101110001010001010010001100011000011010001100001010001100101011
111101100110000101011010100110011101011100011010001101011011000111
110110010011001110001110000111101100100101001011110110010101110
101010000100000100011001000110001100100110100011011001011100100
100010000110101110000001010010100001001001111110100100110100001
100000110001000001110000101000011011111000010011101011000
100001000010100100000011100110111100110011011100001100011111100
110000100010111001111010100010000001001001010111000011010100000
110110011110111100010011101011001100100111001011000000000010111
101001110001000001100101100111101101111011110000001011110111011
100100101100100110011101001001100010110111101011111111111110000011
100001000111000101000000100000100100000010001001010000010000100
100011101110101110001000110011100000010001111100000000001000010
110101011110110101111000010010111101100111101011110101000100
111101110010101011010001010011101011100001101110011100010101000
111000001111000100111010100000000011110110000011000000000011100
101010000011000110011101111100001010001101100111101001110110011
111110011011110110100000010001000100100110011000111111001111011

```
110001011100001010101001110101101011001000010111010000001001101
111110110100101101011110001001011010110101010110000010001100111
110011010101111111100011001100110000011001101110100010000110
110111000101001000001010011100011000110010100100100000001
100000101001010011110101000110001110011001000111011010000110011
100111111100000011111111101001101000001100010111110001010001
100110000011011011101111100111111101100000011100000011110010110
100001010111011010000101001000100110011001011010111001100110110
100011010111100100010100111110011110110011101001010000100001011
110000010101110110100011011001010010100000110110100010011100
101000000010010110111000101011011111000101010011000111000110101000
101101101111000100101010110001010001010110111000110001101
110111001010101011001001110011110100001100100111111001001111110
100110010001001000101001011111001100110110110010000001000001001
110010101010000000001111110110101100011110000010111010010010001
101100001001100100010000010100111010001100100000001101000001011
100010010000010010001110010000011111101001010010101000101101011
100000101011011000001000010100101000001000000001010001011100011
111100011010110000001011010011101000110101100011100001100101
100001101000010100000001001010000100011000110110011100001010011
101101100010110001101010010110000001011110000010011011100000011
101110010001110111001110000010110100110111001001101100001001
101001111110011110011100110010111000111111011000010110001001001
110011111010000111110000101111000001100011111010001001010100000
111111000010100111001011110100000011100110001101000110001110010010
101000010110100001010011010110010101010100111001100010001110001
100010010011100101100001101101010001100001100011001101111111011
100001111101101100110101111010000000100000010101010010000000
110000111100111010110001111010011001110000010111100100001111111
100010001100010011100101100011001010000100101100111100110011001100
111111010011110000100100011011010000100111011000010100011
1100011000011000111111001000100101101111101100111110000110011
100110001101110100011110000000010111101101001110010000010101
100101001111010001100111100001101011001000001111110000111100111111
110011111000000000011010011100101101011110110100110000000011011100
10101011011111011100101001000011001101000000111011001101111111111
110001010000010100100011101100111011101100101011000000011010000
101000001111000100000101011001111001101000011000101001100110111
101011001111010100011001000111100010111101001100000110100100101001
100011111110110000111011101001110000101110000110001010011001100
100010100001001101100010101110010110011111000000101101101001100
100100001011100000111111010001100110000110010110011110011111100000
101010100000000010100010100110001010011000111101000111000001
100110001010101101100001011100100010010011000010110110000100110
11111000011001101111010010011110101110010110101111111101011101
1101011011101100010100100001111011000000011101000010111001110010
100111101100110001111110110011001000000000100101111000000011000
110011110000010110100010000000010100111001001001101101001100000
100110110011001111100001011011101101011100000000011000001000011110010
```

110001010010001110000101100110101000101001001100011001111011010
1001101110001010100101010000111000111100011010111001000110011100
1000101010011110011001011001001010111101000110001010111001100
111111100001011101110000001001001010111111111000100100110000
101111000010100010011011011101101000110100111111010001000111100
110001001100000110111101000001000000111000110011111010100011 0111
101011100001000011011001101011000101101000110111101000000011 1001
110100001110011000100110111101111011001001101100100000000001
1101110100111011110001100111101001011100100100000111011000010
1101010011001000111010110000110011101001001101110101110010101 0
10001000110100010010111000000011111010110011000100111010011 00
1011110010100111101100010101101101100100100111110010001110001110
111110100000100010010011011010100001001110100001111111010011 11
111111000111001101000011001110010010100110010001111110000 00
10101000101001000110111000011100000011010101111100001111011 01
101010111101011110000101101011100101101010111101100101100011111
110011001101010011011011110011111101111011000111101011011011 01111
1010111100001100001011001000111101101001010111111000010011001 00
10000010101001111100000100110111100010011001101110110 1001000110
11010011110011100100100111101101010110011110100000111111000 00001
10000100010110110101110000101101110000100010101011111000011 10001
1001011000000101011011011000000000110001001010101111001000 1000
1110010000011111010011010011110100011011101010100100111111110000
101110100001010111011111101000001011110110001011000000 1000
110100100110100010001111100010010111000010101010011110000 10
1011001111110111001101111001001000001000001011111000011000011
1001111000101010011111010100000000001010011011011110000000 1
100010010100000110101010011001111011000000101100000001001101 00
111111010100011101000000110110101011111100111010010011000011 0111
1110100001111100001111000001110001101111111001100101000100 0100
11101010011000010111101000110101101101111110010001100101011 00
101000110110001011010010001110110001101100011111110000000 10101
110011010110110000111111011001101101001101101100110011101100010
101000111000101000001001100001011010001100001110000100100 11000
101110100001101101110000010111100011011000010011001100101000011
11011111100000000101010000011101101111001001001111110000100
1001001001101101101001011101010000111000010011000000100000 11111
100111101100111101101100100111111111011010010100101100011011 000
10100011110111000111010100001010110000101110011100000111 1101
101100000001101010001100100001111110000100101000100100010011 01
111110110101100110111111000010101110001101111011001011100010 1000
1000001001100111011001110000100101001011100000011101000010 110
101011000010011110110000010101101100011111100001111000100010
110101110001100010000011000010110010010111101101100100011 10000
111000110010001100100111011010100001011010001011110011101010111
110001100101110010110001110111101000101000111110011110101101000 11
1000110110011110010001100110110111001100110110101111010001100
10111111100010110101011011000101101011111100101111100101111111111
1110000101101011101110010001110000110010011010100111110100011 00

111010111001111101100001101100100110010111010001111110100110011010110011100011110110101110100110100001001111100100001011011
111100000101110000011111101110110101000011000000010110111100
100010011011001111110001011001111001101001100101010100111010
101011011000010101100111100100100000111000101010110111100000110110
101101110110100001111101110110010110110111101110010110110111100
110011011111110010011111100000001111101111001110101111111101100
100100010001001001101010110000000110110110110010010011101010100
10111110011011000010111111100011111110001111110110000001001111011
100011111000100111110010011110011011001010101111110101011111111110
10101101100100110110101011111101001001000111100000111111100000111
101100000010011101111111111101000011111110100101000111011000101
111001111010000100011110000011011101111011011011010000011111100000
111111101011111111011110101111110011011110010111001010111110001011
111010010111110110001101111110011111101101100110110111100101011
1000011101000111010000011111001000011011111000101110001100101
100110110010110011111100010001000100010100111101010101100011100
110111111101101111111110011011100010111111100011101010011101100
11001100111001011000101101100010010100001110011011000110111110
111010110011010000101101101110100011010011011011110111110010
100100011001110001110101111111111101001111010010110101010000
111101110111111111001111111111110100110100011001001010111100100011
111011000100010101110111011010101110001000100000011001011110111
100100001010111100010101110110101011000100100110011111110001010
100100001111001111110100011011110010000010001100010101010000
1101001000110001001010100001110001101001010011100010111110
100100101101101010001001100100100011110010000010111101100001101
100000111101000001001010001100110011001101001110010000010111110
111111011111101111011111101110011000111010011111011011100011010
1010001101011010001010010111100001110111100110010110010000011
111110100011100110111110110010110001000101011011011001000011011
10110101100110100001001100011111011010111100001001001101110101
110111100111010001111011101000110101110010110011010001100100100
111100101111110100101111101011011000101111101100010101011000000
110100011001111111000101001100100011011110000111101111101111
100110001000001100011011001000001001110100011010111000011101
11100001001010100001101100110011011010010100110110101001111011
1000110111111111101001011100011011010101100101001001001011010
101110010001100101110011111101100111101111000001010000001101
100000010110110000001110010001011110011000101010000111011001001
1000110101100100000111100000011111101010011111010101011011101011011
10101111001100110110000010101000111010000111101011111101101110
10001101001101111111101011011100010111101000000011000011111000
110100101010100000001101111010000100111100100100001100101100111
111110001000010101011010000110000110100001011010010110111001101000
110010010110000011110000111110111001111011111100011010101110100
11101100001110111100111011111100100010011001100111101101111110011
1001001010011101001101111101011001111001001011111000001101011111
111101000110100001000011101000010011100000110000001001011110111

101111100000101111010011010001110001000101010110110011001011010
110001000100101101010100100100001110100001000000011011010100
111000011001101000100100111100010100111111000001101010100111100
101000001010111001000111010110001001111111010111100111000001
100110010111100001011001000100011001100010110100101110000110011
101011000100111010000010001000010101100111000001100110111001110
100110110111110101100010010011110000111001111001000010010110011
100010111110111011001101110001001101100111100111010001111110110
111001011011100010100111100101100110011011101011011000110110100
110111100100010011100001001101101000110100101111111000010111
110000010011101100101011110001011111111011010010110001001101000
110100000011001101100010011111010111000010110111100000010111
111010001011110101011001111001001000001000101001111111000000110
10011100001000011100001111111010010101111101101100001001
110100001100010011011010000000101110100011110011110110101111111
100000111111000110001011001010110111101111101011110110111001 0
100111101000111111110110001110000100011110100101001111011110
101101111000101101101101100011101000110001010011011101100010 01
110011110111110100000110110110001101000001001011100100000010100
111001001101101011011000110001010001111100001110001111100 00
100110010011100111001001011001001000010100011011111110000110010 1
101010111100101101111100010000011100100101110000001101110000110
101001000001111011010101110100000011111001000010111000000011100
100100111001101100110001010010000101000110011110010001001110010
101001101110010000100111100000101100001001001011110000100101100
100100101101010111111100110111110010000111110010010101010101011
101111001101100000100011100010111010111101000111111001000 11100
101101000011011110000100111011000101101000001101101011001100 00
110000001110101110100111010111101100011111001101100010110101111001
101111000010001001001100110011111011100110101011001100110011000
100111000001000110111101111111101110110110000011011011011010110
11101101000111011111011011101100101001100000010110111101110 0111
11011010100101111000111011101111011111100101010001110010000 10
110111101101000010110001101111000000010010010011010111000011110
110001000111011111000111100001100011100010001101011000000111110
101100000110100001010110010100110010010111011010101111110110110
111001100000101100010100001111010101000111000000011111001111010
111000110000001010011110101110000111010001011101011000100011110
11100100011110011111000011010010110001011100010000000011001010100
111111000111001101101011011110010100110110001001000111100100011
11111110100100010001000010110100000110110010011011001001111001
101000010100100000111100001011111100100101101110100011010001
100110010011010001010000011110000001101111110110110010100000001
111111101101110000010110011101000110111110001010011011011111000
1101010001101000010001101101101101101101100100000101110010101
101101111001100111011001110100000001100101111011010100001001101
100000010001010000101001100011010110001001101000111101001010111110
101100110001011101111100101011001001010110110011110001111101001 1
100011010010110001011011000101001010110100010111000100011110001

110010000110110000100111000100111000001010111011101001100000011
111110011110010100101111111011010111101000111001111000011001110
101011011110000100001110010010110111101101001010011110001010111
110000010111111100001101101011011111010001000101100010010001111
100011000001110011001100110100111111001010110111100100000001100
101101100110011001100100011010111001110000111100010010010111
111100000110011010001111001110011011001110010010111110100001101
110101000000110111001110100101110010011101011100111001110010
111010101110010111010111010110011110011101110110110110010100101111
100110001001110100001000110010011101100000011011011011011001110
101001011110110110000011110100010100011100100011101101010000001
100111101111110010111011010101101001110100001110011110010001111
101100111101001100110110011101000000001100001111000010101110110
111011000101110110000011101111001001010001100100111100110010
100111010001110111111001001100100110010001101100110000001100110
111110000110111000000110010011011011011010011001000100110000000
111101011011111100101110000011101100000110110110100011011110001
110000000011101100010101101011111100010100001000011010110110100
110011100011101000011001101000000111001111101111010011111010001
100100111100101110101100100011011010011001011110011100111001
110110110110101111110000100101011001010101111011010010001111111
111110100011110000111111010101110010010011110110000000110
110001011111001101111110011111110110101111111000101111110011011
101111110001000100111111001001111010100111111110010010100101100
100010001111000100100011111101000100110101110001001100100111110
101100101111111011001110101100100111101011111000110000000111000
110000110010101101101101011011100110001101100000000101001110110
100010101111001000001101011101101001100111000001011011010000110
111110100011111001101111010011111001100111110111001111111111001
111110110011100001110100011010000111001101110100011101100
11001101111111101000111111111011011111100110111100001110100101
100111101101111010001110101010111110111101110110100001110011
10110011000100111001110100000111110110000100101101100001011011
111010111110000101110111010101100000111110001101101110110011011
110010000001100000011101101011000010011000001010111000
11111001011101000011101011001000100110111011110110101110011011
101100010011111101100101011011011011001010011111100101110100011
111011010000001111100101100111100111110101101101111001101000
100011001111010101101011101101011111111101010100111100100010
11011000100101110001010110000011010001001000111110010110010111
110011110101010000011000111110010001100111000000011100101
111111010011111011100111111011011011000111011011000100000001001
101001101001110111000011111111000111110110001111101010011111010010
110010010010011100000100101110101001110111001011001111100111111
111010000110011000001010001000110000010000000100001001000101
111101100010000110001000010001100110010011010101000000011010110
100001111001100011110000000010010001001011100101000001000111001
100110110111000000101110101000110101110110000000100011010000001
110101001000001010110111100101011111010001110111000100111101001

101110100011111010001111011000111100110011100110110100101000
111110000111110011011010110111111011010111110110101111111001
110010100011111111110111111111110111111011001000101110000111011
101101001100100001001001110100000110110011010010000111001011001
101001011110010101111001010101111100101010101010011000000100011
111001001001111010111000011000100110111100110100011110111101100
111011000001110111110110011100001011001100011000010001010000001
101101100111010000000100011011001111011001111011001110011001101
111111011000000111011111001010001011000100001011111011011000110
110011000101001100001100011100010001100110010001000010000000111
100111000111101001101101100001000110110001000110000010010000001
100011001000001010101011011001000110110111000110101110110100100
100001011110001011111110011111010100001000011101000110001010000
100101100001010010110110011000110001001111000110011010111110001
110101010000010010100111000100111001010010101001000001010001100
111001110001111010111001001010010010001101010000010001011101000
100110011011110001110111010010110101011010000010010100101111001
100110011011111101011110111100000001001111011010010101110110011
100010101100001100010001000010001001100100000010101100110110100
110100000110111011011010011001000101001101011110101011111110001
111000111010000100001100011000001000001010010111100011000001
111101100110010000001110000010001000100001010101000111011011111
100110100000110000100111001000110011011001111100011001110000011
111101011110011110000011001101110100100111111110110110100100000
111000110010111110000010111101101000000101000011001011011
111010100011001011010111100111100110011010010001100111110011
100011011111101101010100110110011110100100011100010001011101110
101100111000111010001000011010101100110011011110101100110011
101101000110011001100010111010011110010010111000011010011011100
111110100111111101111111000010001101110100110001110001011011011
100111010001110101010110110010001110011010010100001011110110011
100000100011000110111000110001110110000001100010101011111111101
110101110111011000011011001000110010010010111101001110011100001
100000101011010110010011011010111111010011011110111010100000000
100100110000001100111110011011001000110010010101011001000010001
100111110110000011100011001100101001100001010010111011110010101
101110000111111000111010100111101110011100111110101011010100000
101011001011001100111111100001010101111010010010001101110010001
111101111011011010000001101101001010010101001011011000100000001
111001101000010110010000100101100101010101011101100110111101110
100110111111010000100100011101000111011101110010000011111010001
110110000010111000010001000001010010101011101111011001110010011
110010101010101001111110000001000110011001110011001100010010010111
101110011100010001000110001100100110001100011000011001010001110
111011001000101111001000011100000100000101100010001000110011100
101000110111100111111000101001011001000010000111010001010011011
100101010111010000011010000100011000010011001000001101101010001
111001011101110100101100010001100101101111101000111010101011000
111110001000110010000001011001000111011100100101011011111101111

111111000000100110101000101000000011000111100001100100011111010111
10010010111000000010000011001011011000110001101011100111000
101111011001001100101011100100000100101011000100110000100000110
111111111100100011100111010000011110010101101010100010110001
1100111111011001111111011011111010011000101010101101100110010100
111101001011011000010101110000011001111010000100011101111000111
101001001100101011110011010010001111110000101110111011001100001
111001111011010010001100111011110000010011011001110000101111111
101000001000000010000010010101001110101011111111010010111110110
1010001110100000010110001101001011101001101010011110010011100111
110111010001010111011010110010000010001111101011101110100110111111
11000001110000001010110001100000111110010001111100000000010101
1100110101111110010001001110100110001010011000011000001101
11110011100101110110011001100000101001110001110101111000010111011
1000000101001011001100110010111010100001000110000011001000110011
100000101100110010001011001111011010011001000001101110110010010
10000110000000010010111101110010110001110111111011011111110100
1010001011100110000100100110111111100101000000000101001011100
110100111000100000011010100011010001110111110110011101000011101
101000111010001101111100000111110011001110010010101110000101110
10100011011100000010000111001000111100001110110100011011110000000
110011111011001000110000101101100000100110000110100001110001111
100011000101110001010100001100110000011110110100100110100001
11001100110110011011101000001111000001111001000010100100001001
11010100111110100001101101011011011010000111011011100001010
10111010111111001011110100001011000110000011010010111100100000
11110111000010001001000110011100101100100011101101111110010011
100011101101111010111000000000111101100110011100010010000101
10110011100101101111100000101100011000101101111010111110010111
101010011011001001010011011011000011111000001010110011101000
100111010000110011111111011000101110001001000110110100011110
1000100011001100011101100110111100101110011100110100100100100100
10111000000110110001000101101001010111111010000100111010010100
1010111001111010010110110110011001111111011111011110010011011
101111110000001000011011001111110011001001011101011100101110010
101011010001101000110010101010100011001111011001100111101110
10111100000111110011100111001111101110110100100000010111110110
10100111111010111011111010110010001100100011100111000111110000
10100100101000101101111000110010001100101111100001111101111
1000011110111111011101011101011111100110011111011100110010101
1101011001001001111100010000110110010000101100001010001101
11001101000011000111011000011011010010100101100100001001011111
111100111101101100110000101111101100110101111101000001100011011
10110101011001000111111000111111111011100110110011101011101000011
100100110110110100001101100110011010110110110010110110001000110
11111100000011111011001111000001110001100011011111001101110101
101110110010100111100000101111001001110010110110010001100000001
10111011110000110010101110011011110000000111010110100000010011
10100001110000101010100111100110110110111011000100111100000110011

101110111110110000010001111101011111101101110100000101111101
111111101001001000001011001101111000100001010000010111000010100
111110000010101101101100001001100010010110111110111111100000
110010110110111100000010000011000000101000110011111100101011111
110010001111011000101010101110110111011101100001111001001100
101001101110010100100110100011001100111011001011001000110111110
101000001010000000000010111110100100100111010001100100
100100111011110000101101001010010111110011100011010000010111110
100000010001100110010101001001111100100111111001001111111100111
111001000100101100100110101111000010111010000011011001000010111
111111001110001101111011000001111100000011100010111111110011001
100110010011010010001110000010100111011111101010111100110100010
110011111110100111011101000100101011011110101110001001001011010
110010110101011111100001010000101010001100101000101111100110111
100011001000011000010101010110111011001100110110011111110111001
110111101000111100010000001100100100100101001101011001100110010
101111010001110011000101101010101101110101010111010000100101100
101001101100100101011110101011101100101110000010010111011000000
110010001111011011000001110010011000010010010011000001111011101
100000001001110010001100010011011010101000111100011011100000110
100010000110001010100000111010010110001011000000111000000110010
111101100101010111100110000011111111011101100001001001000011011
101010110011001101010011001011010111111010000001011101100110010
111000001111110001110101110111011110100100010000011110110010
101110011111001100000100111011101100111101110111011010000101101
110100111110001000010001000001110100000001101100100011101000011001
101110011111011010010111000001011111011010010111101100100011101011
110100001000110110110011001110100000001001010111110001011010001
111111110010110111111010111101111000111110100010001110000011
110011011010111011000111111111000110010011101010011101010011111
101010111001101101000011110100100000110010000100011101000101111
100101011001011100100010111101000001011001100010101011110110010
100101101100101010010000010110101110001111110000010110110001111
110000101011011000110101000000100111110111100001100111111100001
110111110101011111100001101111110000011010000001110101010001
100000011100000111010100000110011010000110110000011010010101010
101110001011010011011001000111000011001010111110110100001011010
100100110000010010111001110001011010001100110011111101000011111
111111101110111001101000000111011111100000100011101000100001110
110110001101010111010000010010010111100111010111111010011111000
100111101110011111100110111010001110100001110100001111000110
111100000011111111001110011011101110001000010010111010001001111
110110011001100001000100010000101110100010010001100010000111010
111111011111100101101011100011111111100101001000110110011001000
111101011111111110100011111111001101101000111111100101111110011
111011001110101000011111010000111111000001111001101100010011111
101110101001010100000110011011101101111111101110111111011010100111
101001101100011111111100111101101110101001011011001011111101110
101100010010110001110101011001111110110011011001110001110000

111101101110101100001100111001011111001010111110101011111000
111000101001110111110111000011011110110000100101100000001101
100010011010010011111111010110111110011101101101111101001101 0
111111111111010011111110001001100100011001111010000111001100 00
111000100111100010010100101111110000110011001100111100111111 10
111101000101011100010011110110010001001100111001011100010110 00
111011111110010111010000001011111100111111100000110011110100001
111100010111010001100111000001000111100010110000000101000110100
110001001100010010010101110100110010110100010110111001101001 1010
110110001100011111100110010111010001101011101000111111110000 01
101110110010101110000101000100010110001000100011101001111 0
100011101111101001010000010111101110011001101101101111010011 0110
101001110000011011111001100011111100000000010111011011000010100
100101010001011110110001111011001000011010001110100100110000011
111111111111010110000110110001001101000000010101000111110000
111001101000101101011110100010001100100000111010111101001110 1
100011100110010001101011101101000110001010110101111000100111 000
100111101100000000110000011011111011010000111110000111101 10
100100000011001010000000110111101001011000000011001111000011 1
101110011001100001101110001101011111101111110110011111011001 10000
110011000110101110010110111011000100101101011100011011001101010
110011001000010111000011001001101111011101111100100101110111 10
101001010111010001001110000000101101101101111111001111011000 0
111011011111101010010010100001101101001100100100011001100 0
101111100100001111000100111100001101111000010111111010010110 1011
100110110011100010100001101000101101110011110001100101100110010 1
111111010001110101100011010000010001011011001011010001000011 1111
101110110001000010111001000001110000000001011000000110101 0
111110100101100101110000000100110110001101011100011111010101 1
100111101100101011100010111111101010111111100010111011011000 1
111010110110001100101111011000111010011000101110101100100101100
110000111100001011101101000010101001001001100001100000101101101
101101000111101110010010011100000010101100110011111010101001 10
111101101001100110011000111010000000011101010110011101111010 00
110011111101001100111101001111101100100011100110010010111110
101100111001011001100110101110110110100111101111011101110011 11
100000011110001010010000011010100111111001010010100001010001111
111100011001100110011001111000100011000101010010101111001011 00
101101111010101111011000110000111101100010010011010011110110000
110001001101011100101101001100100000100100100011001110000011001
101100101101100111010111010111100001011000110011100010010111 0
101111000001010111011000100001110000010110011000000110101111000
101110000000101101000101001101000000101011011000101101101011 0011
101011000001101110101011000100100111100001001001010000101101 11
111110110111110111101101101001010010011000100000000100011001 1001
100000011000100000101001101001110100000110011001011000000010100 10
111010011100111110000110011101111001110111010001011000001101 1011
111101011000101001101110100101110111001111100100001011111001 1111
100001110010110010101100001000000101001110001000010101110101 1101

110011011000111100010101110011010011001110010000011101000111 0
100011101000000101111000011001111100100110100011100100100000 0
101011001001000111110001001001000100100001110101111110000011111
101101001111100001110011110100011001011000110011110000011000
110111001000010111000010011110001001000111111100001100110110000
110010001101011100011110001010000011010010110101110101111110 0
110100000001110100011101011101110111000100100111111101001100 10
111100010111011111001101111000010000100000101011101110010000 10
101000110011110011000110010001111111100011111000100010100110 00
110110100011011111101100011001001100010000101111110010001011 0110
111000001011000011111010111101111100010011001001111011110001 0
111001000101101101001011000110111110100010001111100101101000 0010
110111110110011000100011101100011100111001011000111100010010 11
110100000001000001101111111010100001101000101001101101100000 0110
101000000111100001110011100111111110100110111011110001101011 01010
111001010101110011110010000001101101011001001101000111110010 00
111111001001101111101101010111111001111010111011111011010011 0100
101110110110011001111011000101001010000011000111110100010100 0
100011101100011101011100000000110111001100100101011100000000 1
111111011001001011001001011111111100000101110000101001000111 1
101100101100101010111110111110010111000001101001100110110001 10
110111100101011010001010011000101110000101110000101111001110 110
111100111100100110101100101011001010011111001111011010010111 1010
111010000001100000100111000000001100000001011000001000111100 0
111011000111000100010100110110011011111101010000010000011001 011
111001101011011001100000101101101000001000010100100011100000 0
101011010001011111101000111000100010000111111110101011111101 110
101111000010001111010011110110110110011000001011001000111101 1010
100100000011000101010010011111001000011011010100010101110010 101
101110001101100011100001110000101010111000011111101110101100 0111
100110010011111100100111010111111110010110011110010011111011 0001
101001111111010011010111110101001101101010111011100001100101 0
101110011100111101001111110100001101111001100110101101111100 1011
101010111101111000010000110010010111110100001110101111111001 10
100011001110010011110110100011100110001010011111010110000101 000
100001111010011011000001011110011110001100110000010011111100 0
100101011011110010111010001101100001010001110110100111100110110
110011101100101101101011101011111100110000101110111101001000 00111
101101101000011011101100000101110010000110001110011111111011 1110
111000111011011100100110110111001001110100010001111001110110 01
111000100110111011000110111010000101110000111111110001010110 11
100111010110101011010000101111101001100101101100111011111001 0101
110011010110111101011000001101011000010010101010110110111111 10111
111110001001110110001101101100100011100001110011110010010111 1
110101111110111010010110100010001001101001011001010000111001 0111
111110001010111001101100001011000001110101110100110110101101 11
100101111110010010110110010111011010100101001101000100011100 01
100000011101010111001111101001000110000001001111111001011010 0011
111011011001101001100110111101110010001011101110001010011100 000

11010111111000010000011110000001111111101110000101100010100111
10101011110011011111001111001001111111100011111100110110101101
10100101111111011001101110000100101011000011011001011001001
10111100110101100100000100010000011000001111101001101011111011
10000111110000111011110100000111101110011001011101001010101000000
11001011100100100111101111100110010101110101100000111101111100
10001101111010101101110110010000011001110111011101001010000010101
10000000010111011010000101001111100100111011011100100100011011
10110101110000000101011001100000011010000110110001111111110000011
11110100011111000000001100101010101010001011111010001001001010
11111011001000011111010001100000011101100110100011001110010011111
11101101000110000111110011101100000100011111111001010001001
11111000010111001100010000010100111001001011100000000111011011110
11101011011011011100010110100101110010110001011101100110101
10101000101001010111110100001010110010001111101111001001111110000
1000011001100100010001011110010100011000011111010101110110100
1010111010010110100011101111101000111010001000111100100000010110
11111001100111111001001111101101101101010011001001111011010001
10001100100110011110010011100100111000000011000010100111111010
11001000000010100010001111111110110011100001001010001001010
10101000110010011001100000110000101000100110110100101100100011
1000000010000000110101000100110001000010001100100001110010010
1000100101100001010000001110100011111011010000000010010001000010
1011101011110110100000000101000011111000011110000011111101110010
11001010001001010001010011001100001010100101000010001001010110011
11000110111101110110011001010011000001100011100011011101111001
11011110001111110111001111101100111100001011000110011010001000000
11110110011010110111011010000110001010010111101100111100100111100
1111011001010100111011100100000100110001100010100100000100100
100001110000000111010011011100001101101100111000110000101100001
11100100000001001011010111111010111100110110000010110111000
100100001001110001000001000000100010111000111000010110001
1111111001110001000011001001001000100011001011010111110101011110
10101001101110000010100010000110101011110000000110000001100011
10001001100000000101000000000110000111110111000001000100011100
1001101000100001000000110110111100101001011110100100010000001100
11111001000001100010110111001110110111000010010011000100000001101
110001100011110100000111000111110011100110110110001100000010110
10001010101010011110101111100111001010001111000100010101001010010
1000000111111110111110000010000111110010000011010011000110011
11100000100100111000000100001011001110001000011111000101111101
10111110011101000100101111101100110011011111111010000100101000
1000111110100110000110010100100011110000111010001110111100110
10010011000010000111101110001010000010010011110110111101101110
10110110110011000110111100000000110010100101110101110011000
11101100001010001100010010010011001101111000011010010000111101
11110000101000010011010000101001011101011101000011100100110010101
1111110111110111101111101111011110011000000001010111001101000
1111111010101010010110100111100101100110110011101000111110110011

11101100111110010010011011110000011000011001011011111110111001
10101011000000100110001100101101100011110100011011110101101010
10000111010101000001100101111100000101110111001000111011101100 00
10101011011000110011111101110011110001010001100111001100100110 1
10111001001001000010011010000100110100110100001010001000001000 01
11111000000011100000001001110001010101001101100001100100101011 1
10110001101000001100110001001111000011011111010000100100100000 11
11001101010111100011000001001110101101011011110001111011 1111
10001100101000111101111101101110101110001101110100110100011 00
11100101000011000110001110011011001000001000101101001011100011
10010011001100111000111001010001110001100101100001000000000001
10101101110011000110110010011000000100101100000110001101101 00
10010101011010111010111111010000000010000010110010100010000101 0
10010001001001000001110110011010011001100111100010100010110111
10101000111010011000000100101110101110100110001010001111010111 11
10111111101010101100100001111101000111100100001101101000010111 11
10100001011110001010011010111101000000101100011000000101100100
10010010110011001000001110011100100000001011010010000001001111 00
101000001110001010110000010010111100100000111001010001001001 1
10100110011100000011100110000010110110100011111110001001000111 1
11000110010110111001110001101100100011010111001000100010000
10101110001110010011000001100100110100111000011111010111101110 1
11000001010001100100000111001011001101101111001000100111011001 01
10000110100001100010010010100001011010111101100100010001110010 01
11011100000101101011100100011111101000001100011000010101101001 101
10100110011000101001100100001100000110110010001001100000001
1001110010000000110111111010111001001010010110100111010000111 000
10111011010100110000101100011000000101110011001110111001000100 11
10000101011111000000011011010000101111010011110110010011110111
10001000000011000111111000000101110011101010100110010010011100 1010
11011001010001110010001111010111011111110000010011000101100000 10
10101110111111101000101100010111001011001010010111000110110011 1
11111111101100111110001100011111011110111101000000010011000100 00
11000011111100000000111100100011001111111001010100000011100000 0
10001110010011000001100011001010110010110010001011011001100011 1
11011000111001011010111000000111010111001010110111110011101110 1
10111101000100100001110010110000111010000010111000011100111011 0100
10101111000001010110111000011100000111011000000010010110010011 1
1011110010000011110001101001001010101011100111000011000001010011
100000000010001011010000100011110000101011001100011011101 00001
1000100111001001001100111011010110011100001101011110100001 0
11100111010111110110100101011011000010010100110110100110000 00
1011100101010010000011010111001110011011111010001110111111001 0
1111010000101001000011010010001100110011001100100000111101000 111
11111000100011000011000011101001000100100100011011001111100001 01
11101010111010110100010111101110010011100000101101111001010100 0
10110011101011010011000101001101110000001110000111100001010111
11001111100010011101001001010011001000001011101011100100000010 1
10100110011110000011101011011110101011111100001110100010001000 11

101110011110000011101100110001110000101110000100011000000101111
111101010111110100101011110110000100001010110011011001000100010
1011001110010101000100011100000101001110001000011001001001
100111101110110011111100000101011110001100110100100010000001101
100011010000010110000011111010000010011110110110000011010000010
110011101101000000100111001011101110000110110010010001000100010101
101110010111101100100111000111000111011010110110000011101100111
111001011101010100010000011100010011100000010111000111110101010
101110111010000110110000010110000011100101101110011101110111100
110000010111100000101001110111001001100111100000111011010000011
110010110100101001110110100100011100100101011110111100111001110
101110111101110011010011001111011110000110010110000011111110000
111111110100000101100100101011101101010100110100001110000110100
111010110011001100010101010111101101000011110110000110010001010
101011100100001110110010010001011001000110011010110100111000000
110011111110110111010101111110110001000111110000001100000010101
110001100010000101111110111001011111011010010010101001000011000
111011000111100110111010011000100100110111101100100110010011111
110100010011100010000111000001011110000000110100111101000000110
100010100100010100001000000100010010001111011011100110001001
111001001011000111101000011100100001010001010001000101000001001
111001000101011110110111110011001000001110000011111101000001000
101011110100101100100110110100010001100110111111101101111100001
101100011110100011111010001111100111000001010111101000110110011
101110110010010111000011110110001101110000010001100100111110000
110000000011110000111010110110001010000001111011011101011000001
100011011101011111110101111000110010000010000100110010000011111
100101011110000011110100000100001110000010111111101001011010101
101110110010110011111110001000110111110001110010000001010111111
110101101111111001001110111000011010110010111100001111110100000
110100001111000000101110000010000110100001001100000010100111111
111001110010111101000001111110000001110000010111110100011100
110101111011001000000001011001100110011011111101011100011111010
100110010011001000010100110000011000001110011110111111000
110111111100111100101100101111010101010111101000110010110110
101001011110000010110101111011100101110010110010000111110000100
111010010010000100100100110101100111010010011011010000010100000
100111110100110101011010010110111110010001000110000010010011110
100000110010010000111100010101110101110000001111010000011111010
111100010101010000111110010011111010010010100011001000001110110
100100101110100010111000000111111101001011000101000110011
111101011110111110000111010011100010010010111100010101001011
101011000001100100100001001101111001101011100010100111110111
101100011001100000000000101101001010001000001100110110100100010
110000100010110000011011001110100000110111101001111110111001101
111010011010001010011001110100011101110001101001011110011001011
100110000001010000001011001110100100110111001011010110011
100000001111011000111101110001010100110100000101000011101011111
100000101011111100011011001101000011100100010000010101100110110

1110100001001000010010110101010000101001101100111001001101111
1011101000000101010100111110010100111100001110100100000100110
1001010011011110000111000001001111010001000000100100100110111000
10011101011011011001111001111000011110100010111111100001000100
1111110001110110011101000101011110001111111101001011011111100110
1010111101110010010110100010110010001110100100010010011111101
1100001001000111110011111111000000111000100100100110011011011000
1100011000110110011001001110001010011001100111100001011110001001
1111101101010000011001000100010111000010100110101010000001101111
1101101100111110000111001011100001010001011111011000111100000
1110110001111100011000001000000100000000010011001100111111000111
110111111111111011111110011011010110111111100110111111010110111
1101010010101111001010101111110101011111100110110000111111111111
11111111010110011011011001111110100101100111101110010100111 0
1011001100010110100000011001010110111110000100000100000011001
1111111010110100001101100111110111001101011110100110111010010 0
1010000111111100100110010110010110011111110111101111111010001 1
1000010000101100110011101011110100011011100111011000111011110 01
11100010000101001001011011111000011111110000001010101110011000
111110001111110010011111101001111101011110000101001011100110 1
100101010100000000000111011011001111110110011111011100111110011
11010010111111110100010110000101111001000110001101110010100 1
1111010011111110011011110010111100010111100010111111011100100 00
11010011000011010011001110110111000000001101001110111111111001111
1001111101000011110100100101011001001101011000110101110100110110
1011000001000011011101100001001011011000101100011000100001110 0
1001101100011011001100010001101111011000101111000001001110100011
1100101101101100101011110000110100010001010110100010010010111 1
1111001111100111000110101111100011010011000100101001011011000 10
111000010111001001111110111101010111101100010111101001011111 11
1000001111110110011011011010100111111000011110110100110101110 0
1001001010101011101000110100001101000011111011000000101001100011
101100100100111000011100100001010000010010110101110001101110
11111100011010011101000100011001001100101100100111101111000 1
1110110000011011010000001111011001011100011111010010001001111100
100000011010111111111100010100100101100110000000111010001101000 1
1110011110000111000000111111111010011011111011001100110 1001 1
1001111100100100100110000010011100001110011101000110111111011
110101001101000110110000010010110010101100110010110000111000
1100101011000001110011110111111110110100001110000011100011 01010
100001111000011011111101001110101111100001001110010001001101 10
1111000010001101001101101010110111110010001101010001011010001101 1
1111111100001110000100110010111010011011000110001110001110001011
1001000101011000010100010011010001110011110100010010110000101 00
1011110111000111001110011101100101011100100000111000001101001 10
11010011001111010011101111001000101011010001001110000011110110 01
1111000000001111000011100010101001100000000101001101111000110110
11100100001101110010011111101101100010000011011001011011111 100000
11100010111101000110101100100010101100110110101100101101000100 01

110110100111001100100010001111100100101110011100101110010101
101110000001110010101101000011011010000110110100111111011110
111101111000101111110011101101000101010001100010010111111101000
110110100101110100111100101111011010000011001011001101111001111
110011100100100100111000011000100100011110100010111001111110101
110111010100000110010011100000101101111011101111110001100110011
111010110000011110011001111110110010011000001001011010110011100
110110001100011001001011101101111000101001110110001101100110111
110000000011110010001000010010101011011110110110000110001011010
101100000101111101001001011001000011001110010001011111001010001
101110001001101000000100111010010011111010000111011011111011001
111110110011110011001001010111010000001101101011111101000010111
100000110100011111011000101111101000011100111100100001011010000011
101111000010101110010010111001100000110111000100001010010011000
110111100100011110110001101010110000011001111111011011111101100
111111001001011101100001001010000110011010101111100110001100011
100001111010101100110000011111111001100110110110011101011100110
110011101011110010000110110100010101110100011000100101101100
100100100000111001001100011100010011010100011011000100110100011000
111010110000110010001100101101111000110100111010000101111111000
100101101110100000100111110001110000111111010111011111111011111
110110110101111010001111110110100001100011111101100110000101100
110000111110010000101000100010100110011000011000100111110001111111
100100110100010110100010111011010101111110100001011100011101010
110111101000111010111100000100010011000100111110000001111110
100011000100111111101000011101000011011000010110101100111001110
101011110111001001111111100011101111010011000100110001010110101
111000010111011000011101100101111100010111101100100100100010001
110001011011000011111101011110110101000011010000101111100001010
101100111100011111011101111110110111101100010101110000010111
110100111000000111001101001011010000001010111011000011100010111
111010001111100101001100110100110000011101001010001101111101101
100101110111101010100011101101111010000001110111011101000011010110
100010001010000011000001100001110101110110010011111010111111011
111111110001011000111010101101111011101011001111011111111010010101
101011011111101010001010111100010000010000101010100111000110011
100110011001100111110001010111011101101001111101101011100011010100
100011010000010101110101001010001000100110111000010101010100111
1111111110010011111100111000111100000111000010000011011000101111
111010111011010111011111000010101011000001101101101000011001111110
1111101000001100100010101000100111110011011100000011011011111000
110110001101101111100010110111011110000001110110001100001010100
101110110010110111111110001011001111101110011111111000011101001001
111000100010001100100101011100000110011011011010011101111111000010
101011100010111110100010110001110100101110110001111111100110111111
100011101100000101100110010001110110100000111011010111100111001
101111111011110011101110111110001110000011101111110011100011
111101010110011110110011000011111000000111011010001111011111000
101011100111100111110000001010000101010111011001101101111010010111

1101100000010011000001100110110111001000110011101111001011001101
111000110011110110010110010000000111111001001000001101001010011
1111000001110111010000011101111011010001011110111001011110100000
1110001100000111100101001111110000010111110100111110111001011001
1000110110000001011001001011101111110100011101111000100000010111
11110000011001110000101011100111101011001111011110011110101101
11001000000110001111011100110100011000100001111010000011100000
110110011101011100110101100100010111101000011100000100110110001
1101001011000000100001100100011001111010000011010000010100101101
111010001100100110110011001111101100101111110100100100101000010
111100000101101101000001011001000110111101101001100110011110010
111010000010111100001101110100010111101111010001011101101101010
1100100011111101000111010111010000100110100001101011101011100001
1010011100100110010001011101101101011001100110110000010
101111111001101111111001010110111101101011011110100011000101101
1101010001111110000011111110101010111111100110111000011111111011
111101101010110010011101111010110101001010101100100011111011001
11101000011100110000000110110101001101101001010000101000101101
11001010010111001010111100011011100010011001001100001100100000
1010000011001001001111111111110110000011001001101100001100100010
10001011001101011100000011100011111000100110110111101100011110
11111111000011111111001101110000111110100011111100110011111000
1111001000101010011100010111100010111100110110111101111110001
111110010010010101000111111110110101011010111001101110010111011
1010001101100000100111011000101011010000110001101101101011100010
110111110010001100011111011011010110001111000000100111011010101
111011001111011001011111111001010100110000001110001111011011001
10011100000101001110100110111111010100111011001110101100100011
1011010100010010100000101111010110110101111101101011101110100011
11011000001011011011100110111100000010111101101110111011011001110
11111001000101111100001011101000110110000000010100110001001111
10111100011000110100011111011010001100110110011101011100001101
1000101110110011001000111001110100110110101001110110110000011100
11110101001111010100111111011100111111000100111101101101111111110
110011111000111111100001111110011011010001111110011001111001100
101000001001100000011100101000010100000100110011000100110101
110000010010110110000100010001010111011111110100000101010100011
1011111101011100101100111111011001111110110011111111000011110110
11000111010111001110101010001101010110010000111111101110100111
1110000100010011111100110011101000001100101110110000001001010
1000110000110100000010010100101110011110000010100101101011110
110000100000100001011000000110010110011000001110000011111101011
111010101010010001100110110011110111001111110001111110100110001
1111110001010010110110111111111111010101001011010111001101100110
1010101101011110101001100010010111101111111010110110010011000001
11010110100011001101001001000001010011001110010010011100100001001
1110111011010011010010010111100001010001110000011001010111100101
1001010011100000000000100110100110011010011000011011110101100
1001101001100101110011100011010010110011000010011101010111001110

101100010111110111000110000100100110000111001001000100010101011
1001000100011011010001001010100000010100110111011111101010111
10001011111010101111111001101100000011010111010111000001000
111100000101010011100000000100011011010001010101011000001001001
111110100110000001001001000110001110101110000111001111000000100
1001010000110000111101111000011011011110010100110100000001001001
110011000000011000011111011011111100100101100100100011000011
100011011111101100011000100011011111011011111101100000001101101
1011101111101111000000110110001010111011001100110010101001000001
1010000100001010110110000011101101110010001101100111011101110111
1010111101000101011011111010101100010011010111100010011101100101
1111011011000001101000010001110111111001111101000011111111000
111000111111001001000110101101110111000010010000000100100010001
1110000000000010010010110010000000001000011000010011010100100011
1000001001011001000010111011100111101100111111101100000010010101
100111100010101001100001110001011100000010111000110100101100110
101101101101101110101101011101000100011011100001100001100111011
1000111001111111101101110011100100101100000100110001011100
111010101001011010110110100010111100110111110100000001110101010
10001000110111110000000010010010101000100100111011101111011110111
110110101110000000010011110110110110111110000101111101011111111
1011101000010101100100000100011101001011101011000110011000010
111001111100001000110001100011010011101010000000010000000110100
101000111001011100001110101100110011000100011001101111011011010
10010101000010001000000110001101000000011010100001101011000110110
10011100010011110010011100010100101000111010000100011111110110110
1010111000101010000100010001000011111011001100110101110000011111
111011110110100011001001011010000110011100100011101000011001011
110010010101100000101100111111010111100110010101011001100100
110100111111111100111110100111111111011111100110011000011001101010
10001011010011110001001111000010101000110010110011110000100111
100011100010101101000000101001101011110000001001110000110000111
111000000111101000011110000111100010001010000010100100111100000
11001100011001011011010000000011000000100000011100101110000
10000001111000001001110100101001100011010000110011110001101111111
1000100011011100000110001011100001010001110001101000010011010110
101000111100010111010110011000101110001011100110100101000100
110001100011110111100111000110101111100100011001100111000001010
10000001111110111110001011101000100010001000101010011011010010001
10011010001100000111001100000011000001110000001011010000101000
100011101001101010100100100101001011001001101001011110010000011111
11011110011110110111111100010111010000111010100000101001111000000
10110110001100011100010001110000111101010011101011111011011111101
111010111011101000101000110011100100000110100011000100011111010001
10110001000001000110001000001010011000001101101101001101110000
110111000001011011010010101111101111111011000111101111001001010001101
100001010000000110111101111001100100111011111101000000111000010
10010010000110111100101001011101001011100101010001100100000001000
1000110001111011010100001100111000011101100000101111000010000010

1000111110001100010001100011010100000100100010100011110110000000
1110000010001000001001100101111000101101000101101110110111100011
1010100001110010001101110100010111111001001100100001100000011000
1110001001001000101100010001100100101100100011001101111000000
1001111010111101111000000000110101101101111010110110011110000100
1110111000110010111110111000000011100000101100100111100010011011
1001011101100111100000010000111110100011000110110100001110011110
1000100001101110101001101110001111011001111100000101010101011
1111110000011111010110101111010000011110111000011100110011001010
1101001001101101011111111010010101111000010011010001101101101
1000001011011011100010100110011000100000101011101011100000101101
1100110011100100100110010110001111101000010110011010000101011000
1101101001010110011001001001010100100010001111110010100011111
1001100111011011011111010101101001101100111101000001100111001
1000111110111000011111010011010000000100111011010010110000001
1010001110011001110111111111010000110000001011011010100000101011
1011100110110101001001101101111010011001000110000001110110110010
1110100111100111101000110010111111101100110110110011001001110
1000001111101100010111101000101101111100111100010111100010111111
1000111100011010110110000011110000010010111000101001101001000100
1000111110011110010100000100111001001000010100110001110000010
1110100000111101110100101100010010011000011100100101101111000000
1100001110011111101000000111000001011111101000011001110000000
1010001000111100001111100011110101011101110101110010001101010
1001001100011100111110010000010111110101010001100111100111000
1001001011101010101101000111001100100101110111000000010100001
1001110000100110110101101111110001011100001111110000010011110
1000011100110111000001010111000101001100111000011100111000011
1100010001110110111011101100000011010000010101110110101110111
1001101000101110111111100010110010011010001011011010111001101
1011010110001010100001010010100111010011111100000011001100010011
1110010101000110111111011011101100011101000100000100000101110100
1011110001100000010100000111001000011001110001001011010110001101
1011100001011000111101100011100001010110010010110001001101000100
1110110101110111011111110100110111100001110000010100011101110100
1111111010000100000000010010011000000100110101100100010010001110
1101110110110001110110001111011100100000001100111000010011011010
1011000000100100001100110011001111110011101011110000000110100000
1000010001101100101101110010011110000110101111100101100110010101
1011110111111100000001101101001111110000110010111010000011111000
1000000100001001000111100000010100010100100011101000001011100
11000101001101011101111110100001010010000011101010111
1100011101100110111111101000011000011110011100101100011101100
1000011110000110111000011101111100000001000100101101110000000
1101000011111001001110101001110101010001100110001011100010110
1000001100111000101110100010100011000110011011011101000001011111
1011011111100011111100000101101110110110010100010000010000001111
1001111011011001001011001111110100101001110100011111000010001
1111000001011000000001011100000011001111001011001000001110100

10111010101000101100000101000011101011101100111101010110000000
10101000101111110010011011001001011101011100001000111000000
11001100111010010111000001010001110000000011000000100100100011
10000010111110010001010001001010110110101000010110011010100011
10111001000111110111100101000110010001101100000010110101010001
11101001001101101001011011010011001001101111011010010001100001010
10011001010111001111100010110110001001011000100001000110010011
10011011110010110010110100001110010000010110000011010110101110 0
11000101101101110110000001101011000011001111011011001001010011001
11001100000111000000011001011101000010001111100000110111111011
1000000100101101100001100100100011111000110101101100101111111
11011111110110111110001000101101100101111011100101111110100101
10000000101010001110011001100111000111000001101001010110010001 1
11000100111100100011011101111001100100000101100000100100101111
10010001100110110100001111111010010100011101011100000011111111
10110010010111010111100100101100110110100010001110100001110101 01
10011000101001100011101000101011101010010110011000101111010011 00
11000110011110110001000000101001111101111001010111100111100001 00
1111000100110111011000100111000001001000111101111011101 0001
1111110100100100100001010010111100000100001111101000111101110
1110100010110001111100000011001110111011001011011100111000010 10
1101100110111000011101011100110111110000100010100100010110100 0
110111110001010111010001010001110110000000111011111101101011 11
10001010010111110000011000110000101101110000010110100011110 10
110110101110101100101100100111101111101011100100111100111001 1011
1010011001000000101011000110001000010111100100011010111010001110
11011000100111001000001101101000011100000110110000010010101 1000
100110111111110011011011000111110000111110100011110011011010011
10101010111000101010001000111001011101001101111111001110111111
1100111110010000001110010010011000111111001111111111101111 11
1101111101101011001000110000111000101001000101000010001000 11010
10111111010111110011111100011110110001001100111101001111111 11101
11000000111110110110001000111100001110011001001001101101010 11000
1111111001111011010111010110011010010011000001101111001001 111
100110111111001111111000101111110100101111110011011010100 1111110
101111110000010101011100001110100111111111001111110000 1011111
10111011001110101111001011000101110010100010011011100000 01000
1000110000110011011001101111111111100111011110000010111100 101001
11011000010111010110101100010010001110111000011111010001001 01100
111001001011111101000111010101101111111000111111110000111111 100
10111101100101100101011001000100101100100100010010010010110 10100
11001100000110011111111110010011001001001010110011111100000
1101111111101111100011111000110010001010111011000010111100001 01
1110100000001110100000100111010101011101000111000110010011011101
110000101001101100100000110010010111001011110000001011011000011
1100101111000101101101110101000101010101110111100000010101111000 11
111110010110110111000001000110100001100111110100001101111101 1100
11101011000101010011000100000110101111010000000011100100010 0010
10010111010000111110000010100011100000110110100111 10000000001100

110001111101000101001010111001001110011100011111101010001001101
101010100000111110010000101101100011011111000001111001001101111
110011110000100100000010100100111000000110011110010110001 0000
111011010001001001010110000001111111110100111001110111 1001111
111111000000000110110001000001110000001110110100100111000001
100100110111100101010000000001100101011011111001101111000011111
101110011000100101011101110010010001001001011000110001 0101111
11101001110110111010011011110100001101001111100010011111 1011001
110010010100000101101000100111001110011110010011111011 01000111
110100001010010110110000101001111011010001100011000101 0100110111
110100011011100010111011111000010011110000100110000110 0011010110
110110100101100011101010111011000000110101111001000111 0100
110110011001110010010011011001111100010111011101000011111101000
100101101110000000011111101100101101100001101001001001 1011001
101110110010111110101110010001001111000110101101011101 0110001101
110110000110111001000001110101011000000011110000000011 100000111
11100010000111011100010100010010001100110010111001000 10101111000
100010011101000001110111001101000011101101000101011110 000000100
10001111001001011001110001001110101000010100001101011 00010101
111000001100110010010011011011000101011010101111000111 001110100
111100000111000110111011001001111010011000001110101010 01101
111011110011011001101100100001011011001100110000000000 0001100110
111011000010110010011001110111110111000000100011101111 11110
100000010100101101011001001001100100011100111011110110 011
101000011100010101001110000011110111001011010111100011 1100100
100000110101111010100101100111011010001110100100001010 001011100
110011101100011100101111000000110110001100110001001011 000110000
101111000111000001110000100010100000111100000011001001 11101111
111110010101100000101111010000110011110110000101000001 100111
110111001111011000100111000010110011101011000010101100 11001110
110000011101010001000001011010111010010011110110110001 011000
10011100010110111011000101001100011110010101101011001000110001
111100001111011100000010111001010000100000100101010000 0001111
11110111010010010111100100110010111100001100010101101100 1100010
100001101011110010001000110011100010111010110100011011 0010010011
110100111110010110111101101011101001110101001110101001 1101011110
110100101011110001110101111010001011101111001101111011 1001101001
10101110010001011101111100001010000101100110101100111 10000011011
110111101111110101110101011101000001101100100000011101 1000100
101001110010001101110100000110011101001001011110000110 0111010
110111110010101110110101110101110111110000011001011110 01
100110110011011011100010101101101110100001011011000101 0011101111
101111011011000111100010001010100000100100110011000100 101101101
101100111101101010010100111000100011001110111111100001 11110000
110011011010000011111000101010011000101011011100111010 0 01011100
100100000111010110111101000101111010100011000000011101 11010000
111110010001110000111001001011011010011000001000001100 001001
100001001111000010001001010001011010111000110000101001 10110010
100001100010010101101111001111000111110101110100111101 0000010011

111000110001101100010110111110000010101110110011001110111111100
101100011010011001001111100001100110000101000100111101100111110
101101101010101011100001110011100100010001110001001111111111110
101111101001101101100101011011010000000110110100010010010010100
100111110111110110010000011101001111101000111101111100011010111 0
111010000100001000001100101101101001001100111100001001100101 0
111101111110000100111010110011001011101000011010110111001101 0
111001000000101000010101000000110110010111100000011001100010 1
100010111010001001000111011000111101000111001101100111011111010 1
111101000111001110000010101101011000011000100101011110010001
111100011101110000011011011110010110101101001010010001111010
111100110010010110101111000010100001100010111011110110010110 0
111110110001100001111101101011111011110000011111100100010011110 11
100111000000011000011011001101101111100000111111100010100110001
101000110011110100011101111110010100110000000000011000010101 10
11111111100001110110101110000001011111011001101111101111 01
111000001000001101100111010111001101100111001011000011110001001
10010000111100000111100111011111101111010111111010101111110000 00
100001100100001101100111100111101101111100101011100001010000001
1011111111101100010101011010000001100110111000011000100111 0111
1011100111010001011011010101111110000111111101101101011 11111000
100111110110111011110111110110001101010110110001100110 0 10000
11010001011001111011010001101010001111111100000010010100 0 01000
111110011100111000111100100101111010010011000011001110100 01011
1101001011111101000011000000010110010000011001100010011101101 0 001
11101111011100100011110000011011010110111111010111111100101111
111101111000010101111011001101101101011011100000010111111000101
1100001110000101100110010001111101110101111011101010110010001010
11011010001011011001011010111011011110110111111101001001100100 10
11100000100111000011111101110000101111010011101110000101 10
111011010101110101100000011100111100001110101100111110010011000
1110011001110000001111000101001101110000011010111011110 11100
1111101000001100000110110011011000001101011000100011101101011101
111111100000111110001011110011000001011011101010111000101101010
11000110011011111011001000100101001011101101110110011000001 1011
10000010110110101001010111110101010101111111010011001101111010100
1110110100101111010110101011011001011101100100010010011001 0101
111111111011011111110011011111101110101010110011011010111101001
10111110011011101010111111010101111110110101111001101110011
10001011111100001011111101010011111010100001011111111010101111 1 11
10111100110110101011100111011001100100100011100110110111 00 11111
1110100001101100011001110111111011000000101000100111100010 01011
110011011100010011101100011110001010100101100110001011111 11 1001
101111111001000110100000010011001110011001001011010010001 10110
10110111101101111100111101000010101101111100100001011011111 0110
111111001110010101011101001010011101110010010011101000110110 1110
1001010000101001111111101000111000011101000100000000110011001101
11101100111010001101110000001110011011000111000001000010100110
11011010100011001000000011101101011011000101010110011011110 10000

110001110010101110111100000011001101000001010111010001100010 0
101101101000011101011101011101000100010111010001110110000000110
101110011101101000101101101110000111100111000001011001000001110
100001111001000111011011011111010111011001110100011110011110011
101001001000011011001001000111011111001010001010011111100001111
101001001000000111100000000100101111011011000010000011011
111000100011000010101001110001001110001001110100010000010100111
110011011000110100000010010101001110010111011100101100100 10101
110011010000000000001110000101000111001010110000110001110111111
111000110101110010011000010011101100011100100000110100011001 0100
110101111000111011111111011001001110000001011000000010111011100
111011101001001010110011001000000111010000111100000111100011 0110
101001011111011110101110001100010000110010100010011110111001111
110010100011100010001100011000011111101001111011011110100001001
110100011000100110000000111000101000110000000001100111000000101
110100111010010010110000000100010101001010000000100000010 10010
100111000100100110001000001010001100110110111110100110110010110
100000011110000000010100010001110100101111001010101010100001000
110001010010110010100001001101001000010001010000111000000111
110011000000000100000110010011000100101001100010000001110001
111011100111110011000010110110000001111101101111011001000 0110
100101000010010110001000100100100001100010000100011011001000110
111100111010010111000001000010001100001010100001000100100 0100
111110110001111110100001010001101110111110011010001000010010001
111010000101001001110001010101101111000111101111001101000111100000
111010001110110011001001101000010110001101001110111000000100
110001011110110100001000010110010100010110000000101000010110 1000
100001101000010100001101111001101110011110111011101000001001 00
111011100011101100011101100011100111011010011111000001001110110
101101001010100111110100111001100111001111101000111010011110100
110111110111010111001110101110111011001111011110000110100001101
111101000001010100010000010001100010110010011011110011111 01
10010010001100100110000001001111111010111100001010001 01101
111100011011010110011011110001101101010100001110000111010 00110
111110000101001110100010000101110100010111011000001001011010 1111
100110110001001000110011101111101111110110011111000000 11001
111000000001011001110001010100001010010100000101011110 1011100
110111000001000101001000001100011101100100011000010100000110 0101
100011100110111000000111001001001011101110000010000100 00101000
111011010000111011111000010001101111101110100101110100 0001
100010001001000111100110000001011010111000110011100001 011010
101110101111001101000000101010111110010100001001110011 1000111
111110100111011101001100000110100000110001001001100111011111 0000
100000100001010010110101110111111110000110111110001100011 11011
100100111001001111010000010101100100001011101000010001 00000101
101011101011010110001000011010010110101101111000110001 11100010
111111100001111101000011001001001000010000010100101000000 11
111100001100010000000100011001100100010101011001100100000011 1111
110000100010001000100101010010110010101010000101010000010000 0111

110011111010000101001010111011000011011110010110001101001110101
110001101111000101010011001100110101100110011001011100111111010
110111001111110000101110100011110110101000001010001100011111001
110100011000001000010100101100001100000110001100010100110010110
100101011101011001100011101100100100111111011100100010010010101
111111010110010001110100111110111100001101011010000010011000001
100101000001011110100101000000011001000110110101001010010101010
111011101110011100011100011000101001111010111000010110000011001
101100100111000100010101001001011011011011110010001101000101000
100001011110110111011000001001100001100011110100110010110001100
100111010000110010110110111010000010011100100001011000011000
110110111100011100000010100000011110001000010110100011010010011
110000001110001111011001110100110000001011011010001001000010111
101000111010011100010101001110011000100000001000010101100100110
100001111010000010101001000011001101000101000110110011101110001
111100011001100101001011100100110010000010110100010101101010000
111101001001011001111001000001011010011001000011000000110000100
100001101100100100010110010001011110010000110111101100011100000
110000111110000101001110010010111100000011110111101011101000001
101000110110100001000011000001001101010111010100111011111000000
111110101110100011001101101011110111100101001111011101010111010
111101110010010110001010100000100000010100110110010010011010101
110001001100011101000110001001011100010100111001110010110011
100011110011110010010001111000010011001000101010100011001001001
111000000111010000111001001100011110000001110011100011000011111
110001110000111010000001010001010011100011110000110010110111001
101001110010111001000111011111110100111000100111001101111000010
101101011000011010001111111100100000111011111111010111000100010
100000101100100110110110100101111110000101001110011001010001
110010000110011110011110100011000111101101100001011011000110000
100000100111011010000010111010010100101011010010101111110001101
101110010100011010000000100011011001101011001100100101100100011
111100010011000001101110111001001001110110111100010000001101001
111000000111101000110000000111000101011001001010110000011000
101110100111111010011111101001111011101100000010110011111000001
111010110101110100000010011001000000010011000111111000110011001
101111101001000001101100110000011100000101101011101000111111000
110011001000110100110000011101000100000100110100010111110000010
101110100110110110110000000000101110110100100101011101100010101
101100101101001010100110110011110000001111100100011101111000011
101111111111010001100111100110010010000000101110110011000011001
100010001110010100000011010011101100000011011000000001011010000
100010010111010111010011010000111111001110111001101000110000111010
101111110000110010110111011010000000111000011111100000011000001
111001110111111000110001111111101110011101110100111000101101011
111001100100100111000011010000111100011001010100011101111111100
100111001111111010010001011010010110011100100111010001010111011010
100000001101100011110000010101101101000110011111110110001110011
111011011110000001001110110011111000000001011011001001001010101010

```
100111110111010001000111011100001010110010110011111101110001 01
111101100110001110100010101110110000111111000101000101110
110010000011000001001110110011001001011101110110010000011011
111101011110110111100001011110100001100011101100011011110000101
11100101110000011100100101011010101100101100101000101101101111100
10011011000001000110000011111010101100100111001000000000100100
11110010011000101010011101000111111110110011000011101000101101 11
11100000000101001100110001000001001111111100001001010101101010
10100110100001100111100001100101101100010110001000101101011111011
100100110110110100011011101111000111110110111000000011111
111100000110101111100000111111001010101010011100111001110100010 01
11001111000011111010111111101000000111010000010101001101000110 1
101110011010010111111110011101010110100100100100111111000001010 0
1001001101100010111010010000001010011101101101100100101000 1
110011100010100110010001100000011000001001111100010001101110101
11100000011100011011001101111010001011001111000100101000 0100110
1101000010000111101010100010001100010100100011011110 11
11111101110010001100000101011000111110000010011111110100000 111
10001100111100100111010000001110111011111011111110111010001110 100
101111011000011000000001001001110110100101111110100000001000011
100100100111110111001111010101000001010110011111100100011111 0001
111001011101100010000000011001011100000100100100101100000101
101011110010001000111001010110001101110011111101100100111111 0000
111000000100111000110010011010001101010111010000110001100100 10
110000011011111100010111010001010111100111100011101110 1100011
100001011000000010111011101011001001101110100010010000 0011001100
100100101110010100101001100110011110110001011111011001101011 11
11111101001100000000100100111000100001001001110101111001001 0000
1000101001100101101001000110110001111111110000011100001110010110 01
110101110000001100100010011111101001010101101000010100001101001
1100111001110011100111000101011111101111111011010001011101101100 1
111010011001001100101010100100000001010110111110000010110000000
10101111110110101111110110100100011111000011111010001111 01011
11100001100010110101000111100100011111011011100101000111101000 10
11110010010111000001100111010010100110010010101110000001111
11010100100100011111001001111100010111101000110110110010010 0
101101101100010100111110001110001100101000110011100111000100 1
1011011001111111101001110011010000110011011001000111011110000 00
1011001011101110010111111101110111010011001010011011000001 1
111011111010010100010011001011001101011110000000010001100110 01
100000011001110001011000111010010001110101110011011111110010011 0
1000110111000001011011100100101101111011101001110110000000001100
10110110001111100001000110000000100101000101101001011101111011 1
1011110100011001110101110011101000110001110110001101111000111 00
10010010001011001101011111101001010001011001000011111100 0
1111101110010010110010111001111010111111110010111110100000011110 0
11011101001011111001110001110011011001011110111101111011001000 0
101111111111101110111111111111011111111111000011010000101110011110 0
110011000110001010010101001111100110011111101100111100110110 11
```

100101000110001001000111111001111111110011011110000010111111000
111101100101101101110000010101100000010111000110110111101101100
111111111100011111111110111011010011101100110001011100110110011
101110001111101001011101110111111011111011000111001111111111000
101000111001010000101010100100000001001000111001001011001111000
111101111111000011110000011111100110001101100001011010000000001
101011111111011100111111000101111100110110111100111100010111011110
100001010100111101001000001111101000011111110001111001101110
111101010001110100101011011111000111110001010100011100101000001111
111111011011111111111011101101011101111101011100011000001011111
101100101110011111011001111000001111110011011101001111111100110
110000001100101000010010011101011010000111111101110100011000100
110010000101001100011111100000100111000100110010111011001101100
101111110001100001111100110110110010010001111101100011111101110000
100001100011000010111101010100010100110111110000100111101000010
101011011000111100111101010100011101000100011101000000001110
100011110001011000011111000100001110000000110110101110011110000
101001001111110011011011001000000101110011001100110011010011000011
111010010000111001001000111010001011010110110001101111011000000011
101000010000011000010001101101011000000000010111001101000011000
100010111110000101001111110001010101110010010011110001111010001100
101111011000111001101101101011111011000001000100100101001110
111011000101000101011101001111001000011001111100001111011011
110011010101110001011110001011011111001100011000010100000011000
100000001011111000011001100101000000111111000011011000100111111011
110001011011000111000010100011101000110000000110000000101010001
101111010010000110111101100101000010100101101100111000000110011
101001101110100101101100011111100001100011110000010100000100111011
100111111111010000111101000010011111101001001100110110101111111011
111101000010111111100100110110001100001010111000000011101001101
110111111010011001111010101111111010010111111010000110011011000011
111000000011100000111100100010010000111010001111001001011110111011
100100001111000011101100000110101110001101110100110011011100
10011000000000011100100101101110001100110001100111010000011101
110110101011011101000111001100010010101011101101111010010010111011
1010000111000000101111101111011101000111110001001101000010111011
111000010111010001100011110100000001010011000100010011011111101
100001111010010111100001111000100001011110001000101101101100001111
1100010110011101000110001100100100111000000111100000001011000000
11110001101101001110001011111111010111100111001011111010101101111
111001110111101001110111010001010110011000001110000000000110100111
1001111001111011111000010011001000000011001100100011101000000111
110100011010011100000111101111100010111110110010010011001110110011
10101000000101101101010011000010011101001001010011011010101110111
111111000010100101000011001011011111111010100100010100111101100
111010111101101010011111100011111101001111111100001001111011110011
111001001010110000100101110010000001010010100001110011001101100
100000010111100100000011110000110001011110001011111111000111010110
100111001100111110011000000000000011001000011001011001011110011

111100000000111010010110000011010111000111010110001011110011111
11100010100110100110100011001101011110100010101111001000101
101001010111110101110000110011010101111010100000001101111010
1100111100001010101100100010011111101101100000011011001110111000
10000100100010111100101101101001110010001001111100100110010100
11001011011110111110011010011000001100100011110001010010001011
1011011111011010000100111011000011111000010111111101110101110
110010000110110000110011011101110000011011011001000010100100
1111001010001100010110101001011111000101111000101111011111110111
1100011111001110011111001110000101110111001111000110100100111100
111001000111101011101011001111100011000000011000110101110000110
10100001110111011010110111111011001010111010000101011111111001011
10111111000010111111110010100110011011100011010110011111100101101
111101110100010111111111100101111011100110010011100111001110000
111111110010011001100010001111100100110101011101111011110001001 0
1111100100011100100010100110111010110011011000100100000101101101
100100100001011011000000101100101010001111000101011011011011001011
111001010001111111111011101001111100000110110011100101010101111
10110100001100110100010110011000000110011110010011011000110111 0
1010111000011101010100011000100001110111110001011110110001010 10
1111000101001000100100010101000000110110010000011010011001101100
110011010001001011110110011011100010100100101111011101000100 0
100000000111100000101100000101111011101001110001111110110010
11010111110000010111010001101011110011001110001110101101 1
1001001100110001001111110000111111010011011101011011001101011 01
11101111110111000101010101100010100100011111001110101110110 11
1000001011111100111101111111011101011001111011001111110110011001 0
10110010011011111001000010011110100110111111001001011101000111 1
10011001000000001010011100011100001010000110010000110010010 1
10111010001111100100011111010001101010001110011110111100101100
11110111100001111111111100000111011000011001000010111101 1
11101000000111010001001111100000110110101100110010011001100101
1000011110101101101100101010011001011001000000111110111111010 00
110001110100101100111111010101011011100000101001110010000 10
11100001111110101010011110001000101111100110111110100111110111 1
1110011110001010110011001111101110000000101101001001100101010 11
111111101001100101011001000111001000001011001100110000100 11
1101000111101111000011110000011111110010001000101111000010110
11110111000101011101110100100101100010010100110101100110110 11
11111111010101000101111001000110010001100001110100100100111010 0
1100110100110000100000011000010011010101101101100111000001010 1
1001001000000000100000000000000000000011110111100110010100010 1
11011000110011000111100100111100001101010101000100000101000100
1110111100111101011110110110001001011001001101011110000011 01
1010010111111000100110101110010110110100000100111100101110111 11
1110100011000001001110110110001101101000000101001110010010011 11
101011110100001111010110110001011000001101000100010111010010111 0
111110010001000000101010111111110001011001111111100100000011011 0
10000011010110011101000010011110110001100011110111011101110010011 01

110001000111110000000010110110000100111100001011111100000001100
100111110110101110011110101110011110010101101110011011111110000
101001010101111101111011110101111100101111111000000111011000011000
111110000111000011011010101001111011001100010000000110011000101
111000111011010000111010111110110000000110011110011111011101110
100111010011011110000110101111010010010001101100101001000001110
110100100011111100101000011110010000010101110001001010101111000000
111101011001010100010000110001011000111101001011111101000101111
111110100010110100001011001110110010010111001011001011100111001
100110110110101011001111001001001101100001010010000001101011011
111110101111111100010111110100101111111001001100110011001011110
101001011010100101000000101101101100100010011110110001111100110
101101111100011110110111100100011011110110011010110010010110
111011111111111011111110101111111001001011010111000111111110
111111011100110111010001110110001110000011110011011001110111111
110011100101111110111101010010110010011001110000100001010011001
101001010000001100001111111000101101101010011001100111110000000
100001110000110011010000011101000100000111101100100001011
100110011101101111001001111111101101011111110011011000100011010
111100010010100010011001100010101100010011001010110110010011110
111011001001010111010110110011001110101000011110100011110001000
110111100010111001111000101011101000010110111110010011111111
11110111011010111110010000111010110101100111110000011100001
111000001110001011001101101100101011100100000111001101110100
111001110001001111001101000111000100110010011100101010010110010
101101111110010011010001101111101001011010000011110000001
11000011111000110101110110001110010001111111111011010110101011
100111011101101010011110000011111111000111101100011110110110111
1000011010110100011000010000101001011110001001000100011010001
110010111001110011111100001010011011001111010010010100100010000
10100011000001000101100101011010001100111011000110001011001101000
111001111101000110011100011010110000111101110001000000100001000
100101011010000101010101000000100010000100100110111100010001000
100010011000110011101011001011001001100101110100100000
1000000110111100100100011111101100100000101011000000110010101
11000110010011100001011111110001100100011001001001110000111011
100011101110101010100000101010100010000101001001100001100011100
10011011111101010001110011010011010010000001001101100101000000
1010001101101000100110101100110111000101001100111010110111110101
101100100011011000010001001001101111011110001100011001000011
100011001001100101000110011101111001101110110011101110001101100
100000101100011001001101000000111111111011110000011111000010110
1001000110011100101110100110001011001010001010101000010101001100
1100001100000111101100010011011100101100010000001001011000010010
100010100111110000011111011010011011110000100011010101110010101
1010111101111000011101000100000100100110110011000110000101001100
111101010100100100011001010000001001011011010001000001100010000
100000010111000100010010000001000010001100111011111110110010101
10100000100110110000100011101100001110101000101010010001100000010

```
110011000110001100001110100110110100011110010010000111101011101
110001010011000101010100010001001110101110000111001000111100001
100111011001001000000101010100011011001101100101011011110111001
101111000000100110101111001110011101101101000001101000011000001
111110010100001101011101100111101011000111101101101000001001010
1111111001110001100110111101000010101111011000000011000010100
101011110011101000101011000000011000010100100101101000011100001
101111110010111001001110000101000100010011100101011000000100100
111010001100101011011101100110110100110011000110010010001101010
101100110110000011001101100101101110000101010001101100011001100
111011110100100101000000010111101101011100111111010001000011100100
101100010100001101001110001100110011001011000011100100010101001111
101100001010101000000101000111000101101001101101110000110000110
100110111100001000100100110111001001110101111000010000000100010
110110110001010011011001111100001100100111100000111011011101010
101110001110010001100011000011000001110111001111000110110001010010
1011111000100101100101010100011010110011011010000011100000101
101010100110010110101000100101100100111100111110110010110010110
101000101011111101001010001110101011111010110111100011000110101011
100000110100011001111101111011111101111010110100001101010110001010
111001111101011101011101000100101100000100101000100000010100111
100111000001100001000011010001000001001011110111001010011001001111
100101011110101011100000101000001001101010010111010111011011100
101100010101011101000001000101010011110110011010010010011001011100
100011101100111000001111010001101111001001101100000000010100101
110000101001000000011100010000000001001111000001000101001111
100111001011101010001101100000111000110110000110110111110110001
101001111100101011011110011100010011000101010011100010011110011
110110001100010110111000001011000101010110011000000101000011000
110011100111100110000010011011001110001100001110001111110001110001
111001000111111101110010110000010101011011010001100011010000001111
110011010011001000100101011110001011101010011001100001111000011
100001100001001110010000011100011100010101010010011101010001100000
101000001000101001100101000010100000111101000001010000011000110000
1010111000011001011001111110010001011100001010101111011001010001
100010110100101011100100110100010100111000111000100111100010111
101000110010000011010111100101100001110011011001010001001100
100001100011010000000011001010010010100101011001111110000111011100
1010100010111100011000111000010010100110110100001100010001101001000
110110111110010100000111001100110000001011000110010011011100111
111001110100111111110100111010000110000011110101101110011101011
111111101111100101010101001111111011101000010000111000001111000110
101010001100100000000001110011011011010010010110000010010110011
110000000100001010111000011010001101011110000101010011010010101
101111110111001111111010101010100110011100100010101011010001110
110000001001100011011001011010000111101001111111101001011111000
10100011011110100010011100110011001110101000011000001010001
101010111010100110110001101001101100110011000011110100011101101
100010100101000100110100101111100011011011001000001001100011110101
```

100111111101010111100000000000011100011100100000100100101110
110110001000011011000010101110110000111011010100110000010011011
110111001101110110101011011101000110110000111110100110010000011
100111100001110010110100111000010011010001010011001110111001001
111000000010101111110110101000101000110011011111100011110111
110000101110001011110111111100011110111001010100000110010111010
111010001001011000010100101101000011000010000101101010010011
101011110001100101110100111001111000101110000000100111111101001
100000001000000101001100110001010011011110111110000111101000110
100001110010010010001001110000111111011010100011000011110010
101000000110110100110111001110000011001101010001101011011111011011
100001111010001100011100000100100110010001101110011110100011111
100001000110011111011000011010110101110001001001011111011000101
110011111100111000010111011001000001100110110101010111010110001
100001101001001010101010011101101000101011110101101000100011011
110000110001001111000100100011000011011010111111001100110010001
111010011110011011011010110000001101100110110011010101111111101101
100001100111101101011111010111010111010100111100010000110100000111
111010000011000010100000111000011110011101000011010001111011000011
111101100100100101101010001110101110000000010111110110110011100
110011110111010111011010110100011010111110100010010101110010100
110100011100011011000001001001000010001011111010000111011010100
110110010001011110010110111101110010110100011111010000111
111001000011010011001101011110010001111100001101100111011100000
110110011011001100110110001010001000110010010011111001101000001
110111110111111111000001110011100001110101100111100000010111000
110000000011100101111101000111111000110011101001110110110111110
110101011001101101100010100101001110101110111111011111100111101
101010001100010001100110011001110001010101111011110100100101101
110110110000011111100101100110010000111010000010101011110000000
110010101101000010011001000100100101010000000000100001110110110
101101111100100111000111111111001011101011101000010011100000110010
101101111011110110100101010000111000000111000000001000001100011011
110100111010010110000100000001010000111011110011101110101001000
100101111101000001000000011011011101010011101001110110010011
111111000000011101000101100110111101100100101000000010010100110
111010001010001000101010010110000000111000000111000000100000101
111100110010110001000100001011010001110110111111111100101100010
111001101010011101000110111110100010101110100101010100111001100
100111001011010001100011101101001101111000101111000101110101
110011011100110100001000000010110011001100000011001000100000110
111110001010001111101010011101011101111011110111011110110000001000
110101111101001110001111111110010111010111010000100111000001001
100100110111100110010101010000110010001101111110001111101011
111110001101101101011001011101000010111010010100010100001011000
110100011110001100011110110011011111101010011010000011111010101
101000101111101100110000011100100011111100000000111100000100001
100011100000110000011111010011010011001000100001000110111011011011
11100000100010000000010111101111011001111001100100110101111010

111000101111111111001010110110100001011010010101011010001000100010
110111001100100000010010110010001101111000110111111011110010001010
111100100000111110011110101001001010000100001100010111000000011
101110110111000011101011110110101101011011100101110110100011110
100111101001011101001111001001111101001110111111101010110111110
101100011000110000110111100011100100100100100100000010101011011011
110000001000100000111110010001110111001001111001100000101111011011
110111101101111011111111110000100111101000010001110111111011011
100100000100011110101110111111110010001000111011100010011100110011
111011010101000110111000111100010000010101111111101011010110101
111110000000111111111000100011011111011001111001101110100010101
101010011000011011111001101111100011100000010010011100000001100
101001000001000000011100110011001101100100000110110011101011
101100001100100001011100010111000000101110010000010000110111010
101111110001011111110100010111010010001011001000011100000000
100111011001110110011110000010111100001101011010001011001111110
100001010100001010101101110010111101011110110001011111110010110
101110000111010110011111000000111101100100111100100101010010000
101001000111101000111101000111100011000000101101101100011100111
111000010011111100000100001000010111100100101011100000000111110
111110010001011001000110001000011000010111101101101101000101011
100110101110000100101100010000001010000101010010111101100000111
111011110100011011110100100110110100111100000000001111000001
101001111110010000011011001111110011010001111000111100111
101010001101000010110100011000011011101100101010011011000010000
111000010110001000010000010110101111101100011100111110010011
101111111011110111111110101101100001010010001100100011001101110
100000111001011001001110010001011110110011011101110111111110111
110010100100100100101101000011101110100000111110010111111111100
111110110111110000111111111001101111111011000010000101100100011
111100110110100011111110001111111111110100111111110011011110100
100000100110011111101100011010111001010000111000000111111111000
110000111000101011001100111111111100001100100110110001111001100
111100001101110000000100110111100011011000001010000011011001100
100110110100101111110101011111101101011111100110111001101110001
101011101110000110111111110111010000011111000011111010001
110001101110111111111110101011111100001011100001011100011101
110001011111110011011001000011110101110000111101101000000111
110111101110011110100001010010111100110110111101111110111011
111010000000111000100110000110001101101010111001010001011100
101111100101111000111101101111001000100001101000001100000100
101100110010001000100100110100001010101010001111011000100101010
111100001101110110100111111010001011010111100100100100011001
100110101110001100101100100011001100111101001011001000011000
111100101010111000110001010110011110101011110010001101101000000
100101111011110100011101101111010001110011100111110000000100111
111111010000001000110011101000111111110000101110000001000001110
101011011010000001101001011000000100000000000111011011010001110
100000000111000100110110110110010111010110011000100111011100000

111100100010101101110101011000110000001010011111000001001111100
10110011001010000000110111100001110111111011011010101011001
100001110010101110010001101011110001001010110110100001111010010
11100110110011101010100001110000001101101011110100110100100000
10010110010111011011000110101011110100110000000111100100111100
100010111111000101001000010111101101010111000010100100000000
1010110010111110001011110000010110000000111011111100011110110
10011010001001000111101000000111101110001111011010010101011
101000011111010000101110100001101111101100100110111100010011111
100101011001011100100101000011011001001101110110001101110011011
11110110001010000100011011000111001000100100111001111001011100
100110000011001101001110111000100100001100100001000111111011000
1011000111111010100001101110001011110111100011101011110001001
1010001001001011010111000001010011100000110000010111001101101
1011101101000001110000011000110100100110100001101000111111100
110111100011110001101101011001111101010110110001001001010001101
110110011111110100010111000011010001010011110110010000000000100
10010001111000010001110111001100001011110110101011010000101110
11010101100010011110011110000101001111110011001001011101010001
100101011001110110001111001101010110011001011011010101001011011
110001110110100010111001110110100001110110100010010010010001100
101010010101101101110100100010001101011011000101111010000000
1010000110110110001100110100001100111110100001111111010100010001
101011101000000111100100110010000100101011000000001010110111101
101000110100000100011111100001100111011110011110000010000101101
111100001011010110000011001101000000011001101111011111001111101
101011010000000011010000101110001001111010001001001110110000011
11010000110111001101001010100000110011110111100010000001001110
101000110110001010111100011011000111001111001111100011011000110
110000011011010111111000101111011000110111110010100000001100
110011010000000000101010000110111001011010101101100000110110101
11101110001011111100000000100100001010000011101000010010110000
1111011001000001001100100101111000001001111010100101010110000000
110011110101111011101000011010001111111101111111101111111101111100
111011000100111000001010111111000110100011011001001101111101010
11001001001000000101110101011000000110010000110011111100010110
110001010110011111111010011000010010011011010100010110001010
111000100010100110001100011100100011001110011010010000000110000
110010110110110110101100010000110111100010011000100100100110
100010100101111010110000111000100101101101011110111001001000001
1000111111011000100011011100100101111011110011110110011000110101
110101101101110010111110001110111101000100011110000011100111011
11110100000000110100000110110110110100101101011100111101110000010
100111110011011000111111000001101001100010100111110110110000
100010100101111000101001101100100010111000001011011011101110000
11100100111010110010000101110000000011100000011111010010101011
110000111001001101111101011110111101000001110100000011111001110
1100110110001100001110010110011000101100000010100101001011001110
111011001111111110100110000011010000110100110011101000111011110

110111101111001011110110010010010101110010001100010111100001101
101100111100111100110011010001010011100001010100010000101010110
111001111011011111100001100010010101100110110010011001101111011
110110011001000101000100110100001100010111010101001100111110011
100010000111000000101001100011001001010110011100101100100110000
110111010100011111001011000110000001000100101110011011010111001
110111011011101101101111010111001000101011110001101111000100111
101100001010111010001001011101000111100111110001100101000001100
111100101011110110010110011011110000000110110110010110010011
101001111101001001001001100111110001000111010011101011101100100
101101011011001010111011111010000011010100001111100001010010000
101101101111101011001111000000101101000110111000001110100110110
101011011111110011001101111000001101000101101100100001100000101
111011110100011010111010000100110100000011111111010011011001100
110001111100010100010000001111101011001011100000100001111100001
111011100100101011110011011100000100100101101110111010110101111
101000010011011001000001010010000101111001011110111111000110111
110100000100110110000110111011001101111010000101101100100001001
100010111111000011100101101101001000011101000010001101010010000
110011011000000100010010000100111010111011100010101010110110
101101000001010000010011000101011110000011011110101100100110100
111000010111111100111110110110100000101101110001001010111001000
111001011111100111011000111000110111000100110011110111101000010
101011001100110011010101111010011100111100010011110110101011010
100001111000100101111011001011011001001110000101101111100001
100010111110000010101100100101110111001001111000011010110
110001010111110011100000110101000001011110111011101000100101
111010111010001100110111100101010111010000101101011110110100
110101101111010001110100000011100101000110010001100101001111101
111111010010110011110100000111001110101110011011001011111001
110011110110111101000000010111010000111111000000111001010100001
111110011100111010111101110101100011100011111101001101011101
101101001101111011101010111101000011011101100000111001101110
110111010101101101101110111110011110011101100101100111010110
110001110111100010110110101011001101101000011011010011001000
100001101100011101110111110000111001011010001101000011011101
110000001101100110010011011010111001011011101111110011111100101
101010011011000010111010000100001011111101100111010110110001
110110011101111110100111111010011100001010110001010110011101
100010111110111100101100110011000111111111101001111110011111111
101100011001101110100111000010101001000101001100100000001101
110001111111100011100110110100011001000110100001111100000
100111111011001111100110110111101100010101111010100111100011111
111010111001101010111011111101001001110111100110111001001111101
110111011101110101111110110001110001111110000111110001001111
111111100001111011000111110011011110000111010000111110100011111
111011001111111100111111111110011011111011011111110110100101000
111111100011011111001000111010010111100101000011100110110011101
110010110010000101111101011000110110111100101001011111010101011

101111000010100111010100101111001100101110100010100101111011000
101011000000010000001111010101100110110000011001101010111111
110100111011111001011100000111010110100101100111100001001011110
101100110101110111001101100111100111000011111000001110011111
100010101011111011100100010001111100010111101001001100110011001110101
100011110110100011000100100010100111100001101011111100001011011
111111011010110100010110001110101100011111100010111111101000111
110111111010010111110100101111011011011001111110100110101110011
100011001010011111001100001011111000011000110110110101001111000
101011001101000110111001000100100010101100100100101100000110
110000010010000011011010000001111110000111100000111101111111001
100001000011101011110110001001011110001100001010010000001010100
100100111011101100100101110110011001010111101001101111110100000
101100010010100100111010010010011101010011011100100101001000011
101000110101100110110011011001000110111111101011011101011110011
111100100010010010010010011111100100111111001001111110110001
101000001010100011000100011001010010111010100110000101100101
101110010100100110110101010110010100100100100010101101011100
111001111111000001001011000100111010100110001001001000001100101
110101110101010011001000000111010000100000101001011110111101101
101011110111100111010000011101000110100111000110001000110001001
100111110110000000100111100000110010011101111110110111001101101
110000011010000101010101100000111000000110100110001000101010010101
110011111010010010011100101100011000100011011111110101100101011
101001110000110001010011101000110111100101001011100011110011111
111011100001111101011001101111011010111010000101001100101100000
111111000000101101101100001000000100011010001010000110101101011011
101001100101000001010001011111111010101001010001000000101001
100110000010011011110111000111010000101001010100111010011000010
101110011100011011011000101001111010111110011001011000110110
101100011101100011110000010111110111110011111010001101010010010
101101101000101000101011101111111100001110001011100011000011001
101011111100110110010000101100000100101110110111011010000101001
101101111000101010110001000010000010100111110110000110001000101010
101000000010011100011100001011111111001111001101011010011001001
110010000101100100010011011000100100110000011001101100101011110
101110011111011011001101001101101001101111001010100110010111101
101110100011100011110110111100000011001000000101001011011110
101010001100011000001001011111011001111000111100010111100001011
100111011100001101110000001101101110010000001011101000011010101
100001100111101100111010110111110001100100001101000001001100110
110110011011100111011000010101101111100110110110101000010011101
110110001110000110000010100101000100011110000111000110011100011
100000101001011000100000010011000111111001111011001000111111111
100001000110101011110110110011100001111000110011111110000010010
111000100011101100010111011111101101110111010000100111011111000
101101001001001000110010000000110011011100101011110000111100
111100001000111000000100100101000010000000101001000110001000001
100100010101000011111010011000100100110101110011111000100111101000

111111101111000001001111001000111000000101010101010010100000010
111111010011101011011101110101101101100111110000111111010001
100000010001100111000110010010010011110010001110011110001101101
101000000010010111100001100101101000011000001001001100010000110
111111011000011010110011110110000101000101101001001001011110000
100011100001001100010001100000101110000100011011001001010011
100000110111001101100100000010011110101000010011111000011001
110110001101110010000111001101101111000001100011100000101
110101100110011101010001100110000110111000101010101111110010001111
111100111001001000111000000100101001011001010111001100000010011
101000111010001101111110010101101000010011101001011011001000100
110010100000010010100111110100011000111000001100011101110100010
101011001001110010110100001100100010100111000000101000000100
111010001100011001110011010011001001010111010101001101010110 10
100010100011111101001010101110111111111100101101100011000 01 10
101100101001000100010000110110010011110010001011111010100010011
110101000011110110001110110001110101110000011000100100100100110
101011111000010101010101111000011000110001100111110110 0100
111100110101110100010001010000101110000100000100011001100000 10
110001111010011000100110000010101101101100100110001000011000 111
100110110011100111100010011001110010100110100000111111001001 01
1111001001010101010011000010110111100000101000100000010110 01001
1011011000010110111100011011010000111111110011101011111111010000
1010011011010010011001110100011101011100000101100110010100 1011
1110100100111100011001001011000110010001111001001000000111001
101011100100001111000111000110011101000000100110001111110000 11
101011000010011000001000100111001001000101010100011001000111001 0
1110111111111011000011010100010100100101000110001111100001101
100111110010011100010101100000100101110111000010110100001101011
111000101010100110111101100110000111010000101101011100111111
111001000010001110010000111100010101011011100000001111101001111 00
100011110000001101111101100100100110000100000100100111001110 00
110110100111001110011110000000100000100101001101101000111101110
111100100110001000100100111110000101110000101000010010001001110
101010000010001100111011010101011000001001001101000110 1000
101001011000110011110101011100000111111100000110110100011111 11
101100110001110011001111011101011100111000010111111001110101110
110000100101011011110001000001000110010111111000010000010
110111000000101011000101101001011000001001010110001010010111 1110
110011100100000101001100101110010011011111000011101111000010
11000111011100010100011001111010111001001010110111001111110 11001
100011110110011101011100010011100001001001101100100001 0110
10110011100100011101101111111010111011010101111110010000 10111
100010100001011101100100000100000010101000100100101101010011110
11011010100111100111000011001000001000000000001011011
111110100010001100100101110100101001110000100100010001110011001 1
101001110010011010101011001101011110010100100110110110001100000
101000001011101001011101001110010111111110111000000111000001 1011
100011001011001001000110010111111010000111100101111101001111101

100001110001100010001100110011011100100011111011110001100101111
100011100010111010001001010100100101100110001001001110001001111
100101001000101010111100111000011101110000110011000000101010001
101011001011100100111011110011011100000100110000000010111010
110001011001100111011000001010101000111011100111001101000000011111
101111111100101100001110011100111010001011101001011001111001100
110001100100010000100111000011110110110000010100001010000010011000
101101100100000010111010000111001000000111101011001100101001011
111101000100001000001010111110110100000001010001010011001101110
100110100010011101011100011100001110010001001001010111100000011
101000010110001001011001010001001011010010101011001101100000011111
111010101001101100010011101110111110000000101110000111100011000
111101111011001011111111000011111100000111111110011100111010101
111111110001010001100100111111100010100110100111101000010110100
100111110100100101100111110010001010101011011010010110000
111010010111101000001000010000001001011011011000100001101101001
110001000011011000010010111100100000111000001100000110110000111
101111011011000111100100010011110111011100111001100110000010111
111000001011111110010101110010010000010001101111000000111111010110
101101110110001111111011100011101011011001110101001100000010
111101110010001101101101100010110010010001101000010100110111001
111101000101100111100110011101000001111000010000110101110110100
111011101100111101010000010110111001000011011000001011001000010
110111000011011010010011011000001110101000000101001100111100
101001000110011101000111111001010001101101111011001100011001000
110111101000000101110000011000111100001001101000100011101000011
101100111110101100111010011100111110001011111111101000101111000
101101110100010100100111011111101101111110011111011001011110110
101110000110000001010000010000011001100101111101001001110000
101000001100111110001011011111011010110011100000011001111001100
111000011001101000001111011100000101110110011000111111010110001
110001001100100101000011111100001000110010000111101110111111
111011010101100000010010011100010001010001110111010010011101
100100011011100000001101100110001111000001011011011000111100
101111110000110000101001100001010000010011001011110011110000
100111011010010011001000001110110110000100110100000110010111
110111111000001110111010000111100000100101011001000100110110100000
101000100100101001100000101001111101011000010101110011001101011
100101110000010101110000110110111011001100101100011001100111100
101011110001101111110110110100111010111100111101101100101001001
100001110110001001100101100100000110001101011000010101011101000
100111001001011101110101000110010111111010001011011100001100110
101010111101100001111110101100110011100101101000001011111111000
111110001000001110110010100011101100010111101000010110101000000
110010010111111001011101001110010110111000011110000100010100
111000100110011011001110001001011010011111100000101001111100010
101000110011001011001111011010110011101000101110000101100111010
110101001100000100011000101100111000010001101000001010111011011
110010100111010000011001001000111001000111101111011011001101111

```
111000101101000110111000100000101011011011011001110010011100 1
100001111001011001100111100100000001000111101110011010101101
101101111110001010011110100010001101110011000100101101101100000
111100000100000110100110011101000111101101010000001111000010000
100001111010010111111100011010110100010001111100011001110100010 0
101011100100011101111001010011000101000100010100110000011110 0 0
11011001110010110110000100010110001001111011001000110111010000 1
110011010110111010010010101000001101111000000101101101100100011
110111001111111110011111010010111110011011001110111110001010010
100001010110010101011001110010000011011001100111110011111100 11
111111000100000011001011101011001010011000100011110100011000000
1011101000010101111101000110101111101111101100101110011010011 1
11111110000011101000110001011100100011001001101110011010010001 0
11010000010100101100101101011100100110111111111001111111101100 1
1010100111011000110111001110110011010101110100100110111000101 00
10010010000110111011000101011101110100110100100100100110001111 10
1011101111000101010110100000100101111111101100010110111111000 11
11010111111000110001001001110000111000101010101100110011010101 1
1101101110110110010111001010110011011010101111100101011111 10
11100100001111000001001110010100011011000111000110000100000 0
110101111011011011110111111110101100011011110011011010100000111111
11011001100111011111110110111110010011111100011011010011110101 1
11011001000110001110001111011101110101100000010010111101011111
100111010011011100000010011111110110110101010100111001111011001
111100011010011001000101001101001010001011110100000101110000101
10110001110101011110010100010010010010000110100001001100100011 0
10100001101100111011111001011100111101101110011000000110111010 00
111011110001111101110110001011011010010011011100100101100000 01
110110110101101011010000111001110011111101100010101001111110001
1010000101000111001101100110100000010010000011110001011000110 11
10010011101001111111011011101110100100011000101000100000110111 10
101001110000010001101000010101100000101000101100000001110110100
101011101010100110110010011111100010010001011111001000001010001 0
11001100110001111010101011101001011001101111000011010110000 10
11001001001101110100000111010001110001001011110101101100110001 10
111110010001010101010110011001101100111101000110011110111011001 1
1010111110110010110110101110110000110111101001000010011000101 11
11000000011100110110011000011111100101000111000100100011011000 1
11010111000000110100001001111000101101111110010110011110001 1
111011000010111100100010010011111100100011010111101101101011011 0
111001010001110001010011001100000000011001110001110000010100 10
11110000101000110011100000011110001001111010001111011101111 0
1010000111010111011010101001101100100011111101000111110111111100000
11110001101101110010110011001110110010110001101000010010001110 1
10010110010101100011100010100010011100010111100001011111110001 1
111000010110100011100000001110000100111010001100010110110001 1
110101000010101101110000011110110101101110000010110011110001 0
101010010100001001010110111110001000000010010000001101100010
10101101110000010110000010000000011000011101000111010000000101101
```

111111001010101000011001101010100010100101100100110111111111111
101110000011110111010001110111101100011010000010000000110011111
111010011001101111100011001011011000101100010001010001100111101
110001001100110000110110100010100111100000011000010111000
110110100011100101101100100000111011010101100110001000110001110
100111001000110110001111011011010010111111011001101000110110000
100111010001100010100011000000110000110011110110110101101001100 1
110010000001110100001111001000001100111010001110000110111111
101010000011110110000010011100100110101011001101111011110100 11
111100100010111111011011011110110010111010011000110101001100 00
100001101110110001011011000000100000110100001100110011110000 1
110011000011100110111100100111000010100111110000000011001 1
110100001010111011100111110011110110111101101101001001001100011 00
111101100000110110100100001011001000111011010010011101000100 1
110010010001111100000101111101100011100111001001001111010101010
100010101000110010010101110010011001000110001011111110100010001
111110011100111010101111000000000111011001011111000001101000 1
111001100011100100011111101000000110111010110110011010001100000
110111011110010010100000010100111011011001010101101011111111 0
101110011111000010100100111101111011001101100001100001100010 11
100111101101011101101100001010100001101100010101011110100010110
100001011011110110010111011100110011001001010111010011110000101
100100011001000101100110001010110110001111111100011000011
111010001001111100011101001111000110111011000110110100100110
111000101111011000100101110011110100111101011111001111110000 0100
101110000101001101101100110001111010000101010011111111100010110 1
111000001111101110110010111111010100100111111010110000011110010 0
111000010000010110001000011011101100011011100000100011011110
110000101101011000010001111000101100110110110011111110000010100
110110100001100011101000010100100101110001010101110010010111001
111010000001010011000101110110000000111011001101101100100 0
1010110110101110100111100010001010001100100100011010001000110 0
100111000101011001111000010111101001011000010011011001011011 00
11011000100100101101111011110101100110110001011010111110101 01
110011110010111100111101000100111000101111011101101110110 1
101110100110010110010001110011110001100110010110101110100011
1010000011000011110100111101101000000110110100100011010000001110
110011111100001011110000010100010000100101100111101111100100 11
100011111001100111101001011001111000011110100000110110100101000 0
110011010111011110010001101100110001011100010100011011011111 01
101110011101001110101110101100111111100010111000001110110000
101101101011001001110001010110011101101001011111110001111011 1
101111101011010111110110011001111011010011010110010000011011101
100101010110011000010001010001011110000001011000101001000111011 1
100010101001010000001111111100011001011110110001001001101100 11
110101011000000101111000101110110110000010111100001100000110 0
100111001001100110111010000110101100100010001111111101010000000
111111110010010011100000010100000101000000011000100110111001000 0
111111111001010101101000110100101000011000100000000100111010101

11101000111111000011000100001101001100001100101101101111110
01001010110111011110011100010011110110000011101110011011100000000
01011100010111001101110010111001011110010011101111011101101101100
01010010100110001000111110010101001100010001110111011000111100
11111000100011011011010100010010100001011001000001100000111
111000011010111101110011011100100000111010111111100110111101000
1101001111100000101011100100111011101010010110111010111001001111
10110110111101000100010100010110111101111101101001010110001001110
1101110101111011011001001101011100101010000010010100001011011001
110100010010110100001101011100001110000100001010100110111110111
110010101100011100110100011100000100011101100010000010110010010011
11011001100001000010100111101000010111011000101011110111001110010
101010001110000000011000010110011011010001001000010001100111
10101000111110100110101110001101101101101111101010110110001011101
11100011110011100001110000111110100101100110110010110110101111111
10111001010011110010101110110011110101011000000111110111010111110
11111110000100001100111001001100100110010001110110011110000111
101000100100010101011000100110100011100111011001011001
101000111101101101100110101101111001101100011111000110110101011101
10110011111101011111001111100101100110011101000010010010000000110
110010011100010011100111011010011001101111001111111001000111110
11111001011111100110111001001101010011001100111001101110111
101001101000111101000011110110001110011011110010111110100101111
110011011011000111001000111010001100110111111110111010001100000
11111111000111101000011111001101110100011110001001111111100011
111100111011111100010110010001000101110011100001100010100100000
11001010110001101110100100110010111111000101100001100010011010100
111110001001111100110011111100101111110010011001000001110001100
11111000111110010011111000000111000100110010111110011011111000
10011111110110011001001110011011010101101111111111110000100100011
101011011011101111111011011111001101011111110001101101100110100001
1000011100000000011110000101100000000110011001101110000001011
10110110110000010110100011001110000101100001101000101110111110
1001111101010110011011000111101110010110111011001101010110110010
111100000011001100010011010010100100010011001100101010011111
110110100100101011010011000011101000100011111100010011001111101
110100111111101111011111111000001100101110010001111001011011001100
11101000101110001100110110111110110101011010001101000101111000
10101111111001101111111011011011000111010010110100000011100000100
11101000100000001101111001010100101000101001111001010111110
11001010010010100001110000010100010111010001101010000001110011
110010010000011100000000000010111010101010101011111111000110
10011101001101010011000101010000000100011001010110010100010001010
1100101101011110110110000010000011101000111111000110011001010
110010011000100111010100111101001100111010110101111100110100
1110001011100011000101001111111000000110111001001001011111000001
100011010001100110010010100101100101000001011011011100010000101
110000000011000110000010110111100100000101010101001000000000010010
1001110000001100101000111111010000100100011010100000100010100000

110000001011111000010100110100010111101101011010000100100111011
1100101001001001000101110000011011110011101110111101011100000100
1000010000000010000010010010100111000001111010011001100111100 01
1000010110101100111011000000101000001000010001010100010000 0101
1101000010011110011110101011110110000011010100110101101101 01110
1110110100110011100001110011101000100101111000100001101010 1110
1111110000011111100001101011101111000110000111010100110011 01101
1000111010010110111100001110110100001000011101101010001000 11000
1001100101100111010100110010000010101001010100010001110010 10100
1000010100110001000111010111100110001000000100111110011000 001101
1001100011010100100100100111101110111100001100011110000000 010001
1100010001110111111100000010101110110100101000110011001110 0010
1100110011101001111010011010000111011101110111111000000011 1100
1110100000100110100011001101011110010100011111100011001001 011100
1111100011111110001111110000111111001011010000001011000110 001001
1100110010101110111001100011010010110010000001111101000111 00110
1101110011011110011011111010101101111000011101100010100100 00010111
1010010100011000110001000000101011011000100001100110111110 10110
1001110011100111000001001100111011110011011010011101001000 10011
1101010111000101001100100001011110100000010001101000011100 01010
1011100010011010111010010001100100011110100011100100011001 000
1100011100010101110111110111000001011000000101000101111001 0
1000100011011110011011101001001000010001011110001000000111
1000100100101000100001110001101011000010101101110001001011 010011
1100111011000101000000010001111100111001110010010110101101 00
1010010010001010010000010111001101001010010011001000100101 001100
1000110100100100100111001111011011110010111101011111110111 0010
1110000010011110001010001001110000001100110101010111100111 100001
1000001000001111100011000110100010110100100010111100000001 011100
1100100001000000111110000100110000011101100100011000110001 01001
1100011101001110000110010101111000100110000010001010000011 1000
1000111111111001100110000010010111000011000100101111010010 110
1100111100011101110011110110011100001101100111000001001101 0110
1010010110011000100110001100110010000001110001110110110100
1100100100101010010100011011110111011011000000010100011010 010010
1111010001110100011100110000000010100100010010010000111001 0100
1101000110011101000110111001011001111111011011111100000011 10000
1011110010011001010001100110000001100101101010110010001100 010
1001100110011010111101110010010001111111101110001111101011
1110001011010011101000100101001111001000101111010000111110 10
1100011000110000010100011010000000110001110100100111010111 011010
1010100011100000111011001001000100011100010011000000010000 01
1010011100100011010000001010001100011101001101000100100101 110010
1010011001101100110010011110100011101000010111001010111000 1010
1001110000110101101111011101111101111111110110010100000100 10111
1010011010011001110011101110100001101100000110101110111100 01001
1100110000000011011010010001011110010110011010110110100101 01001
1011011010000101010010010011011110010111111010000110001100 001110
1110000101101110110000011001110101110110011000000100001000 1100

101001101011101110000010100010111110010010100001111000010100
110010110000101111011000110000110110011001110001001001010011001101
110110100011011110100011010011100000100011110100010011011001001001
100101001110001100111011010010100001010100010010000110100011010101
100001001000110100111110011111010011000011111000000101101011000
111111101100101100000111100110011000111100100110011001110001111
101011001111110000100100110011101010111100001110011100010011100
101100000101111100100111001110010010011100111100001110111010
101011110110001010011100101111001011100100011000010101000110011
110011111010010010000011001101100110101100000111000110100100000
110010010011000100010001101101101101000101000011100100001010010
111100010110100100100001000100101000011011011110100110111001101
111101101011000000101000010100100000111001010110110111010011000
100011000111110010111001100000100011110000101101101110010010111
101000110010000100100110011010010111001000110111111110100010111
110101111110000011110000001001011101000001011100100100001110110
110000010110011000110001111100000101101101100100000101001101100
100111000011111100011001010000010100001010100011110110000010011
100010011010001100010010110010001111100001100000001000111001011
110111011111010101100111101111111010001100101100100101111101
100100001010011001100111100111011011001100001111110100101110010
111001110000110000010110111110001110111001001010011110000000
100011101100101011001001001110011000000001001111100101001101011
111101100011010110000100110101001101101001011001101101110000001
100101001010110011010000010000010100011001100100100111101000000
111001101000100010100101011101100000000100010100101000001010
110011100101111110001000111010100101101011111110001110011100100
110010011110011110011001111011000001011100100100000110110010010
100000000010011110011000011001110101110000111011011100000000010
101010101000000101000011011010000011101000011110000100011001101
111101110111110000111000100100011001101111110001010110111001110
110110101110111100100001111101110101110000111011111101110111110
111111011111110111111110011100011111101011101111101100111000001
111100001100000011011011101000011111101101000111110011100111110
111001110011110111010000110010101101000100000000000001100
110000010111111010000100110011001010100001011000010111111111
110010101101000110100101101000011101100000010100101110000010000
111000001010101100110110111110100101001101100011101111011
100010011110010010001001111000111011111000101010111011000010111
100010100001100110001011010000001111111101111111110110111110110
100100100111011001110001001101101000110011101100011111011000010
111001011101111111111010001111011010010011010000001101000101010
110101001101011011010001010101011111100111100110011010000100001
101010101110100000010101011110110010000101110001101111110011101
100000011110100000111000010010011110001101011101010100110001010
110010000111111010001000111010000101101010101000000010000101011
101000001011010001101110000100100100000011011000001111100000010
101010111011011111010000010100101101011011100010011001000001001110
101110001011010010010110110011111010011001100101010011001100011

101110000001101001000000000011001100001101001010111101110100111
100110110100110110010001111000010111110001011110010100100100
111100101111101010010001010010111110101111111000111000010100111001
101010110011001001001011111100010110011011010101001011110010111
1111011100111101001011000110110100011011110001010101110000111111
101111101000111110110100111101101001000111000001000011101000110
100110011110011111111000101001000111100001111111100000110101110
111101100011000001110000011100111111100010100011110000001001
11110001010100110011010010110111000011110011011000011110000011110
100110011010001101011110100001101100011101100110000110010001101
10110101001111101001111111010010010101100101011001010010010011
1001010001101100101001110001111101100000100001101100100101111001
10100100101011111100010111011110111110010010101000001000011
100100110010110110111100000110110110000100100110001101000100100
101010100100100100001000011001100100011011101101100011001011000
110010010111010111100100111101110011100100000001010000010001010
111010101000101011011110011111110001000101001000100111000100111
10000011001111100111010111000101011100011001001001001110100100010
101100101011001011010000101011100001010010100100100100010101100
1000000000011011011001000001010110011010000101001111011100101
100001001000010110100001110011110011010111010010101010110100011
11110001001001001101000000011011101110000001011111011000010
10010101100111011111001110101101101000010010011001011101000011
111110111110000101011100011001100100101110110100111111100000000
11101100011110000111100110111010011111111111011111110101101
110111001001011101100100100101111111101100010011011100100001011
10010111110000011111011101100110000100011010110100000100001010001
11110101101010000011000010100100010100110010110001010101000011111
1001000001010100111111111000011110010010101101101100011010100
1010001010111011110010010101010011001101101010011011101101101111
101110010001101010100101101111111001001100000111111111010011101
110111000011111101000001111111010000011111100011110111100000
11101000101001111110011110011000001100000111010110000101101
100001000111010000111100100100001111110001001101111011010100001
110000011100011000101000100101000010100110011100010111100
1101110111101100011010101110010101111001101111010101001111100
110000011111001101100101010111101101010111110011011111010010001000
11110000101001001001110000010001100111010110001100100011
1000111010011010111101111010010001110001010010001101101101011000
1101110111111110111101100010011011010001101111101011111111100
1101111110110111101001011001000100111000111010000110111111101
101101011101000100111111100000110011110111111111110110111111101
110011011011000111110000001001110001110010110011011001000000010
1111111001100111101001010100111110001110110000000100010110000001
110110101001110011001110111001111001011111110011010001101100010
111110011110001101011111110110011010001110110001111111000111
111101011000111111111011111101111000011101001111110101011010011101
11100111110100000100111001001011011000100010100001100000010111
1100010111111110001011111111110001111111101110111110000100111100

100110001001100110010001101111000001100110011001011111011001
100001001100111101100111110100111010100111011000111101110110011
110011110100000101001100110100010100000100110000011001011001100
101101110100000011111000000111000000110011010000101011001000
110110000010001110100001011001111100011000111010001110100110010
111110100000011011001000110010011010001011011000001010101111101
110111010000010011100101100010010110001100100011100111010000111
110110110011101111101100010000001100010010100101110110011001001
110000000100100100001011101000111010010001010001101101000010
110010111000010110111111110010010101000010010011111011111011
111000011011110001010000010001111111101001110111001000111100100
111010000000100101011100100111011000011100000010101011100111011
111110100001100001101100001101101000001110111011111011001010001
110011001001000111000001010011011000101011110100100110110010001
110101110000110111000011001111010000011100000000000000101010
111000001110110111100001100111101001110111000110101101101110011
110010000001111010000110011110110100111011000000011101100111
100111011111011011011111011000001101110110100011011100100101100
110111001110011100001111010001100111000000111100011111111010011
110001001110011000011011010010001110001011110010011000100010
110100111110000001111111010000111010000111101000011110111000110
101111000001001110100001101110000010111110100100110000010011111
111010000000110010010101111001101101101000101100000110100111011
101011010000110110000010001001000011111101010110111110011001010
100011011010111011111001110011011010001111111001100011011111011
100100101000111000001110001100010010100101111000101111011110110
100001001001101111111100001000100110001001110111011010101010101
110110111101010110010011011001100110000010110010100100100101011
1000001111110001111000011000100010110000001001110111111000100100
111110001011110100111101101011110000001001110001001110111
101011001000001100111101011101000010000010101111101000010101011
101100000010001001011011100010111101011100111110000001110110010
111100011110001000111100000010011001101010110010001001001101
111011001111110100001100010111110001001101111111000100101000101
100100011010011010010011011110101100011011110110011000100000011
101011000101001111111011111100001011101000010001011000001111010
110001010000111101000001011000000101101110110010101010110001000
110110011110010110010000011101110100001100000010010101111011111
111010110001000000111001000101111010000101110001010100100000000
100011100000010000111110010111011101000101101100001111101110010
100010001110000001101100011111011101100001011100010001010011111
110001100101000010001100010010001101000110000111010001100011000
110000011111111111100010111110010010100001101001011111101001
110010101010011011111100111011110001010100001010000101111000
110001001110110001001110011111101100001100000010011001110100011
110011011111000100101111000110011101000100111101100010011110101
100010100010101111100010001110101000110100001111011100010000
100100000110101001101101100110010101110111101101111011001011110
101010011101100010001101111000001001001011001101111001001101

111110000010101110010001011111000000110010101101100011000000100
110111111011000011111110010111010110011010111011011011001
1110001010000011101101111000000001110010010011011000101111110
1010000001001000011111000100001111011001010011110000110110100
1100010001110110100001100100110011001110011100111100101111101
1001000011011010011001101110011111100010100111100010111111111
1111000111110010111000000100111001011001100101001110100111011111
1010011110100010101001110011011010101010000111010001110010110
100011000011100000111011110110111110000100001100010100111111010
10010000011100111001101001101110100100011011010000111001000111110
1101100001010011100000111010001100011100000010000001010000101011
1000011011010001010111111000110111101000001010011000011111101000
110001101101001000001110111101101011100111010001100100011110001
1011100111010111001100010001000101101101011001111010010011001000
11111011101110110000001111011101001101011010000000011111010011
10000011111110010011011010110001010111101011000100111010111001
1000001100111101010001111000100111111110000001111110001101001110
110001001000010111001010111010011110111001011011010001001111
110111000000101101001011101000011000111100100010001101101001010
1001000100000000100110111100010101111101000001110010001011110100
1010001101100011111000000010111001000101000111110001101100111
11100111110100011101011000101100110101111001110010010000001111100
1010011000100110010010001011001001111111111001010011000000
1110011111001000001101111001010110000000001011001000111011101
1001000101000101110000010100111000010111100000110000000111111110
10110111011010010001100110001011011111011100100011011111000101
11111011100100111110100111101101100010000111101001010011111101
100010001101101010001110110001010101100001111000000001011110
1100000011011011100000011101110010011011001101111101010101110000
100101100110110100111100010011000100111011010100100100100001011
111000000001101111001001111000101110001001111110000110011011010
1011000111001001111011011110010111101110110001101111111010011
1011000111001011010001111101101011010110100010000100110010111000
100110010001011011011110011100001000011101011001100110111001
10001000101110100001000000011111011001101111100010010000001111
100010111100100011101100100001110110100110111101111011101101001
111001000110001110100110110010001001110111010101010101010010001
110000011000001100011001001000011110010011001100011100100000
101011110001100000110100001111111010001101111010000101010000
110010011100001010000100011001101010110110000000011111010100111
111110010111000000101111010001010001110110010010111001001111011
1101011110111010111111100101001101101101010010011110000000011101110
111011010000111001110011110010101111010010111101111110101101101001
1010111000010001011100000011101011011011000011110101101101000000
100101110111110100011111011000110100111011000110110110111101000
1100111111101000101101010101011000000111100001011100110100100110
11000111011111100011100010000001100111111101100001110110101100
10110101010111001000001110011111110100100111001001000110000010110
101101011100100110111001000000110100011111110000010001011001110

111111101101100101001011100001011101001011101010001110001011111
111001101111010011110011101111111100111111100110111011001110011
111011101111110001110111001001101001111111110001110110001101010
110111101111100010111111000101111111100110111011101111110100111
101100010011011001110011011100010111111111010011100111011110011
111001000011111010010011101111011101001100100111011101100011
1001010111100110111110101011001001100111010100111100100111101111
111111000011111001101110010011110101001111101010011111001101
111111000111111000111111101110000111101101100110111100001111111
1110011011001001111111110000111111110100011111111001101101010
111010010010001110110001111100001110011011000010111001100111010
110110110011100101010101100110010100001101100110001111100000110
1011000011110000010111110110000000101100000111111110100000101111
1100111001000101011011000100101101000010101101011110111001000001
1010001011000100110111011001010111011001101100001010111000001100
1000111010001011011111000001110110101011111100100000110111010
101000001010110010011111011010001111101111011010001110111110101
111011111011011011011111111010000111101101101101111101001
110110011111110001010001101111011110101010010100111101000011010
101011101001001001000001100001010101000011000100110011100110011
100000111000001010011101011100101110101001011001111111110
100000000000011100001001000010100101000011101111100101100101100
1001010010011000011100010000001000100001010001110100011000101001
1010101000111000000011000111000100000110110011101011000000110
1100010101101000010011011001110110110111100111001001000110001011
1010111010100011000101000000001100011101001011001101010111010
1111001110010000011000111100010000010101100011000101100101001000
110110001000001101000101001011001000000001110000010101011110111
1000101000001000110101001100011000100011100001100010011000010000
1100001011000001110000001110000001111110110000100001111100001
100001111110010100001110000110010001100101001010011001110000
100010101110001000100101010011000110000111110001101101010011
111100101010001100100101011100001100011100011001000000101000001
1001101100011100000101010000010100000101001010001100110100010101
110111111010011001101110100011100000100001001001110001011000100
110101010101100001111111000011001011010100100110001101111011
1000111011110110010010001101000000000011000110111101110010110001
110011000000001000110011001001100000101001101110111111111000100
111011001010101011010011100001101100110110100001010001100011100
11010000111101000001000101111101100000011100000011111010100011
101001000010100100000110001010010101110111000010111110001000000
101010011010001111011000111110001001111111011111110011011101111
11111000000100010011111100011101010011001101101000011110010000
11111000011100101111101011011111110110101111100110111101110111
1000001010000010100011101011110011110010011111100010000000100111
1001010111100011110100000110010100010100110110101110010101110
10011011110111110111011100111101111000111000001101010001001011
100100010010101000100111000110111000101101010111101010101000010
111111111011001101111100111001000101001110001001111110000111

101000101010011110000010010100100010111001101100111011111110111
101100000011011110010010001111101001110010101001000000111001001
111110101000100110100010001100011100000001000101110001000010
100101000010000110000011110011111011001101010111010000100110
111110010100001110010110010000000010001100000100001101101011100
100110010001101000000010001101001110010101010100111010100011011
101011010100010100010100010100011100101110100001111011001110101
100110000010100010001000000100110111101000101001011101000111
100111001011000100010000001001101010111110111000010010010001001100
100011011100000101000101010000010101011110000100111110000001
111001000010101100101100111111101111001111110000001110100010
110000111111100000110111100001000011000111010100110011110000110
110001100010001010011011001111000010010110010000011100001011100
100000100101111010111011000011000110011100100010010001001000100110011
110100001111111011111101111100001101010001001000111011001000000101
101001101100110011011110001001101001011000101000111001011010110
111100011110010100100110110100110111100100000100100011001001010
110001110010100110110110110100000011010001010010101110010001110
110010011100001101010101011101001001110100110010011000010110011
101011000010110001100000111000000011110000101111011011100110110011
10101111111010111101011001001100011100011101000000110000011001
100100011110010001110100101001111101101001011010001000011011001
101010010100110110110100011101101000011111000111101101000110010
111100000111011010010101101110000011010000001000110001111001110
110100011000110001010110111000000111001111000111101100010100100
110100001110100001111000010110100001110100010111101000010111
1111111010110000101001011011111101000111110110101100110000011111
10101100000011000110110111000001110000011101000011110000000101010
110101001001001000110110110001101000100100101000101011100011000000
111010010011000010101110011010001100010000110001111111100001011000
100011101110101000000000010011001000000010100011110000101011100
100100100011000100100101001011000100101000001001101111100110010
110110100111110000010011110100011110000000100111101000110
100110000011101111011110000001001001000011000110101101101111111
100110110000001101011111110100011101000000000110111101100000110
101100111000010110001110001100001000010110011001111111011010
10001110011000010101100111001000000100001011001100110100000101001
110010010101011101000101101000011000010100110101001110001101011101111
100100111110100111110111001100011000000010000110011001110101101010
111010110001100111101111011111101000010111011000010000011110
100110011011110011110100111000111000001110000100101100111000111
1011000101001010111011111100100110001010101011000010010010001
1111101101000011011010010000100010001100110101000011011001100111
1100101111100111100011101100000100110111111101101011101100
1000010110011100111101110010001100001100100001111100010110011111
1111010101110101111001110010001100000011101000011001011010000100
101110011110001111100010001000100100111101011000011011001101010
111110100011101101001001000100010100110011110000100001001110010
1110011101010011010001010011010011110010001100011101011111110000

11001001010111100001100000111001011001111111100000101111100 01
11111101001011100001011001110100111011001000000010110110000 00
10000111001101011010000101001100100100111111011000010000001 1100
10110101011110000000010101110110000010011011010110101101000 101
10111100000010110111111011010111100111000011100101110000010 11
11011010101101011100111111000011011111100110001100100010011 11100
11111001110010000010100011100101111100000110111001110010110 011
10011111010000111110100000111000001111011010101111111000111 10111
11111100000111110000111110100110011100100110001101000011111 01110
11100001111010001111011100110110000011111101110010110110101 11
11010011100111000101110100010101100000011100111010111111101 0110
11000000010000001000010011010011011000100010101111110100011 11
10100000111101110010100001000110101000001011110010100011101 1000
11101101100111110000000010001101001010110111100011001111001 1011
10110111100100011101100000111100000100110100011001111001000 11001
11100100111010100111110011011100011011001110010000001001110 00011
10101011000101101111001001111011001111011011000011011010111 01001
10001101000000001001011011111010011010111100100010001111011 000
10000011101000011100100111000110111101000101110100011011101 1110
11000001011010110000101000100101101100101011100101011111110 111
11000111000110011011100001010001110111001010001100110011010 1100
11011101100000010010010000111010011111011001100110011001001 110
10001100011111010101111101001100111101001101000001010101111 001
11111110010010111010100010100111011100100010100110110010000 1111
11011000101001111100110110010010010001111110010000111110000 1
10111100110011011001100000010110011010001011001001000001101 1111
10100110011111110000110011110011011111010000101110100110011 0101
11111111001101110000001111110100000010011000101010010110000
11110001110011010010100110010001110110000011011011101111101 11011
11101110111110001111100000110011100100101101011011010011000 01
11111010000001111000010111011100000110100011110001001010111 11110
10010010010000001010111101011100010101110101010111001101001 110
10110110111010010000111101100010011111011001000011010001100 00111
11110000000000011000101110110011001101111001111000110110000 11
11010011011101010111011111001101001011101011100001101101100 0
11001011101000100110110100101011110110110101011101000110001 1
10100101101100000001100100111100111011111111010011101001011 111
10011111011110001100000111010001100001010010010101111111000 0
10111101111010000101001110011110100011110100001110000000011 1111
11111100111000011010000001000001110001100110011011011011101 101
10101100101110100110110110010100110100000110110010110011110 11
10101101111000000010000111100010010001000000001100110111011 011
11000100110001001001010011000001001100110111101100111010100 01010
11001000101001100011100011011110011010110110100000101100100 0001
11100110101011100101011110000000110011100000011010000001001 1011
11000001011011100100010111100100100110010010010110101100000 1011
11101110111110100001101000010111110100000011100001110111110 1010
10110110010101101111100110000110010011101111101100111111111 100000
11111100011111110110011110111010110111001100100000100000100 111

100111101110110001111101100101110110110001000011000001001111
110001010000001010010111011000001100110001000011000101101110000
101101000100001000101011000111101000001111010000011010100100 10
101101010101111000001110000011010111001001001011000010011001 0
110010001110101000001010010000001000110001101101000010000010010 0
111010111100001001001111000010011101100100101000110010001111110 0
100011001101000011100111110100011100010110110001100110111000010 0
111110110100011011010000101011000001101010011010000011100110 1
101101111010110111001000011011010000110111001101101011000111110 1
100110010010100110000001010110111101000000111000100101000000100
110101110100101101100011010011001101010110000010110110100001011
100011011110110101111111110101111110001011111000100111111101 1
100100110011011101000110101010001001001100111100010000110000001
100101100101111010010101101110111111010010100011110010100101101 0
101111001011011111111011001001111011011101110001001100001001 10
101111011111010011111111110111011111101010110010001000111011100 1
111110001001111100110111011011001111110001111111100011111100110 1
101101111100001010101010110011001101110110011011111100011111111
100111001111110001101101001100000110110001111000010101111001100 1
110111110101110000110000111100101111111000001001000010010000 10
111110001011111000101111111101011100111101101110101001111100011
111101010100011001010110100011011000111010000111100110111111001
110101010010111101000101111110110100010110110111111101101010 1
111111101111111001110100010111111100100011110001010000110111000 0
110110111111100011111111000001111111100110110011001111111111011 1
110110110011001101000011001001111001100111110000101111100110 11
100011011001100111110011110000110011011010010111111101100000111 0
110110000010111000010111001101101000001100110010100001010101 0
111010100010110100011111010000110100001111111101100011101000011 0
110011101000011011100100010010001100100110100011000101010100101 1
111101111101110011001000100011101001101001111011101011010001 0
101011001001011011011110010000100011101111001100100011110100 1
101000100110111010010111000000111001111001010101100011101000110
110100010011001001011110110110101001011110100011011100001111 01
111000000011110100011010111001000100011110100001001111000100 11
101100010110111000011110011110000110001111111000110010110010000
110110101001010110110010010111001000101101101011101111111111010
110101101111111001101111101001101101001000110001001010110 1
101101101010101001011001001001010000101101010001101000101001010
111110001011111110000011111000011110110100000110000010001110 00
110010000010011110100110111111000011101000111100100111000110101 1
110101110110110110100111001111010010000010010110111110000011110 0
110001010010011110000101011011111100001101101000010001111001011 1
110011001101000010000011001111111000101101100100111100101101101 0
100000011110001111111010101010111011001100001011000100010001011 0
101010100000001001010101111001001100001100100001000111011000101 1
101000110100110110011011011110000101100111111000100111000000
111000110111100100101100111100100001110000101011100101011100011
110001011011110111101000001100100000001100111111101101010100010111

100110101011101111100011101101011110110001100110010001010011
10111011011001011010110001010110000110010001100010101000111100100
1100110100111100000100100000101001001110100000001111111000
10100010000111110111010011100111100001011100111000101101010100011
10100011111110110001001110001011101010010111111001011111110010111
11001110111100001011001000010000101010011111100010001011011001
10100000011011101111100100011100001011111111010001111111011010100
10111101011101101001100110111010001101000111101010101100110100011
10001111001001011111110011110001011101000101101100100111010001
10100101100110101111001110010011011111010000101111011010101010
10011111010000101100110110001111110111110000110001110111101101001
11101111100011001011001011011110011011010010010010010000011000
11110001000001101001011101111001011011011110000100100110110010101
1000100110100010100000110011001000111000110011011000110100000000
11100100101011000000001100111001001001110000111100111001101111
10010000010011011111011110001101110111010101111001000010010110
1011110101110000101101110110010001101110001001101110110100101
10110110010101110110001000101111111001011000011000001111011110
1110111011001000110011010000110010111100100111011100000101000011
1010010111010000111010011101101010010011111100100111110100100101
11010011000000100110010001010010010101110111101110110011001111100111
111001111001011110011011111110011000001111111000011111001000111
1010010010010111110000101010011000110001000010001000101010010
100100110111001000010100100101011001011101110010001101111110100
1111010000110111001000101101101011101011111100001101111110010
10100100001011001010100000110000101011001111110100011101011100011
110011100100001100110011000101111101011111101101111010101111000
11000111100101000010110110001100011010011011101000100100110000
11011010101101111101100000000110010000010101100010101000111000001
1011010100011111100100100010111000101011000111101000111111010
1001111001000000110000101011010010111101001110000001001000110001
11100001100111110001101111000010110001101100010111110100000101111
1001000011100010010000110010001110101111001000110100011110001000
110100011100011011010001001110000000110110010001010111111010101
10101000001110111011111100011100110110001101001111010011001111
100001110100000100111000101111101010000011100001111111010000110
10010011111101001001110110100110001110111101101000011011011111001
11000001011101101100101101100111001000110101110001010101111100
101101100010111110101110001011000101111001110000111100000
11100101011100001011000000111110111000000101110010010111101010
1110010000011100000010001110110000010111001000100111010001011000
111100101100001100010100111101000010110001000111111100011000101
10011011001011011110111101011010100000101001100111101110011010011
11100011110111011100111110001001110110101000000100011011011010
110001001110110000001001000011010110101111001011000110110100
10000101101011110000110001010110110001000011111000000101100100
101111011011010111011110100001111000011011010011111000000011011
11001100001110110010011010101010010110011001101111011101100
10111111100010101100001101100110011010101111101111100001001010100

100100011010001011011000101101100011010011001101100011111100001
101111011000010101101101101000010001110001001101110100000111110
100100110011000111101100110111100111001110011110011011111010010
111110101101101000011111010001011111001010000110101100001001
111110110100100000110010101111110111110010101100010010110111100
110000010011000011011101001011000111001011011010101011110100
101100011001000111001011010001101010111000101001001010101011000
111001001000111110010100101101000000011110000100110101101100
101101110100110000011010111000101110011100000110011011110000110
110011000100110111000010111011001000100011111001000111110011
101000101100010101100111001100010101110101111011100011110000111
110110011110011011011000111111111110100011001001100110111111
110000011010111000000010011010101011100110110000010111110010010
100111001001111100000011101101101101000101100000110111000000001
110000101110010001110111011111111100011111110000111111000000111
111110011011111010010110110011111100101010010101100100101100011
100111111110001010110000011011100001101101001100110011110111011
11101100100000011100100000110101100010010000011011000100110
101101110111000001010110100111010001011000101000101101001101111
111010111101111000101001110000100011110001100111000010101100101
111010101010000100101111001001011001001011001110000101110011
110100011100010101100100001011110111010110000011001100000011011
110111110110011111110011011110111111111110011011111111101011011111
111110011011001100111100110011111101101111100110110110011111101
111001110111110010011111110011011010101111111111101011111111101011
100110000101100111110011100000111110000011111100110110110111101111
110010110011001001111100011110110001111100111000101010110110101
100111111100111100110110010001111100100011111000100111101101101
101111111100110110101001110001001101100111111001101111010011100
110011000101111011001010100010111100101100111111100100111111011
111110001010010111110101101000110011001010010111001000101100100
110011011010010000110100110110110010010111000001111100111111011
100000111011111100000010101110100111110000001110111110001011011
101101000000010110111101000011100000000101101000101111100111100
111111100110010011011100011110011000111100010011000101101000
111111001011100010011111101100110110111111001100110111000000
101011011110010111111000100111011011000101000000111100100110111
110011110001110110100110111010000011000111100011011101000011
111101011001110000000011110001011001111101001010110111100011101
100000110101010011111001110111001110111111011011100111111010101
100111110101101100000110001000111000100011000011111100001110100
100100100110011101100111010111100000100101101101000101010101
100010100100110011101110010001000110110110110010011011011100
110101110000100101111001001010100111111001110010100001000010011
100011010010011001100110001011101110011001010101111011100000100
101010001100010011110110010110000110011001000100001001101101001
101000010101100010101101011110001101010110101001100110010111101
100000101011110110100011011000000010011001110011010011010110100
100010110001100010100000001100101000000011111000001001000010111

101010011110001001010001000101001110110000100111110111100001000
111110100000010010010110011111011000110011001001011010100011001
100000010000100000011100011110110101001010100000100001100100001
100001000110101110110111110110000111010100110111011000010001
101110010101000011000100001001101010110011000011010110110011011
101001110010000100011111100010110001011111110001111000101111110
100010110011110011001110111000011000010000001010001001000011110
101011000100010001010110010000011010001101011101100000010100000
100101111011010001111101111011000110011101011001000100100101101
110011011000100001000110011110000100011000100110100011001
111001010001000110111101110010011010000101010100011010001010010
101101001101010011001000011111100110111100100001010111001011100
110110100011011000001101100010100111010011100110111101000110100
100011100110111110110111100111011000110111000110000011001101001
100100111100010111100001011110100010010100110111101111001101100
111001101001100100100011101101100000010010111001110110101110011
110011100101110111100011101110011111011001111001101110010011101
110001011110001011101001011100010100001100111001100010001100010
101110001001010001100001000111000101010000110001010101001000110
110000011001110110000000101111011100100011011101100001101011110
101101000000100000010010001000001010011001100001000111011101100
110100000010100110100110011010111010001101100001000011101000110
100001111110100110101110001011010000011111100000111111100011
100000011101111011001101111000101010000011000111011101111001000
100110000000010011011000010010110101110001101110000101111111101
100011001101001001001000000110000010010010101100100110001001
111001000110000011100100010001101110100001000111110110101000001
110101111001111100111010011001011110111000000111011111011011000
111010010000000010011001110001100101100010000011011001110001111
111010000010101010011101101001011010111101011110011101001100111
100011010111111111100110011000101001100110001101001100
110001101000100001100000110110010010001001110000101010101001111
110000001000011110111101110101011101110110100001100100010
101000011110111010000111100010011011010010111101101101111011110
111010111101101110000000101101111101110101110111100111011011000
100100111100001110001111110000010100100100011000101101100010100
100000001010011010010110110010110011100010101000101011010000
101001101001110001011011010101100111100001101100100101110111001
101000000000101111010000100111101111100110110100001101100111101
110010001000110001110101010111010011001110011100010011001110010
100011010001111001111001101100000111011100100100111000100000100
110100111010001100100101011100101110010011011110000001011100000
100011110111011110011101011110111001100100000011001011001
100011000101111000111000010101010000010100010010000000101111100
100000111101000110101101011110010110011000110100001100111100001
100111011111010001000101001100110000011011011010000111000111011
101000010100110101110011100111010101100000000110110101000011100
110100111110100111010010001010011111111000101001101110100001111
111001000110000111110010001101011000010100110111101111111100111010

100101000110010011000010111010011010111101001001010001010011011
111101001111110001100011010101110011111000011010111000001000011
101110001101100100001100000011000111011010000010001100100001111
101110111110111100111010001100101100011101100000110110111100100
100010110011010000011111101010101100101010110011010110111111011
111111001111010111100001011010011000010000001000001001000011010
100100001010100011110000101001100111000001000000011101101111011
110110110011001111111110100001100011000000110010011001000110011
110101011110100111100111000110101110000010010001010001110000000
100101000110001110001111101110100000110010001001011001001110100
101011010000011010011001000111011101011110000101000000000
100000111101101100110101100111100001011100000111000001001100000
100111100110000001111011011001000111001100001010111000001
100111111111101001100000011101110010000110001110011101000011111
110101111000000010000010000001100110010000100111000111010110010
110010011111000100101101000001001110000110000110001110001100001
101100110111011111011011111101001111010001010011010001101101001
110000110110001110100111010011000000110011110111101100111010
111000111110111010111111010000011111101001111110111100100110001110
100101111101100001101101000110100111010010111101100010111000
111111010011110000011111010000010011001001011000111010001100000
111100010100011001001111101100001011100000101000100011101011100
111011111000010000110010010101110010010111110100010011101111
110011001010101011001101100111000000011011000010111001001010111
100111010000001100000000110111010000011111010101100111100111001110011
110010000011100111011110001010010001110001010101110111011010010
110000011110110110000010110100110001011100001110101110101100010000
101101100111101111111010100110110100100010100010110011101000000
110111111101010111111010111011000000011101001111101000101100000
101011000111001001000011100000011111101010110010100010100110101
101011110110100010110001101101010111011111110111001101000010011010
101010111011001110101111011010101111111101110001101101001111010
111000001000010001001000011101011101001000100100100010110110001
110111011000001001111010001111101011110111001100101100010101010
110000011010111010010100100011001011011001000111000110011011000
101101100011100110111001110111001011110001100100100110101111000000
110110001100010100110011011001001100100000010010010001110100000011
111110100101011010001011011100011101001011010010000000100110000
111000100010010100111000001111110000000100110100000110011111010
111010111001011100000011110001001011011000011110100101011010
111100111010011111110100110011110010001101011000110101100100
111110000111101110111001110010011000000111110101000010001110
1101100111110011110111000111100010011011101100011001111111001110
100011010001100011010000011101101010111100001011001001000111
110001000000110001110111100011110010000101001110110010111101010
1010000111011000100110110001011110001101101111100010011001110011
1000001101100000011011110011110011110000111000000100111101111
111101101000000110011000101001010010110011001100110111001111101
101100010101011010001101000101000110111001001000101111110010010

```
1110100010101100000110101100100101101111000000101000111000010
1001011101000011100100010110110000000111010000001110000111
1001011011101011101001100100000010100011000001001010010111010
1110111000111100101100110011000100101100010000100110010100011110
1100000011101000001101110001010101011000001100010111110001111000
11010111010110100000101001011011001000111011001110011011110011010
1100001001111000010110110100010111100010111110001000011011000010
1101001101110000100010101000011010001011100100101100011010001
11001110101001110110011001110111101010111011000111110111010011
1001000000111111110111100000111101011000001100011000011001010
10110000001001001110110000101001011011111010011111011101101010
1110111010100010000101110010110001010001111111000011010111011010
1000101110110101100110110110010111011010011000010101100110010111
1011001101001110010000111100100010100110100011101101011011011
1001111101000100111100100111100100111001101110011011110111000011
1001001101001011101110000101000111101010001011111111010010110001
1101101000101011101000010111000001100111001001011000011101000
11110000101100000011100111000111110111010111011110011101000
1111100111001110001111111111001000011100010100000010011000100
1100100111101110000100111100100101110000101010010100100010100
1110110010000111000001001010110110011111010000001001000101010110
110010000001100010111101100110001101101010110111100100110010011
111100010010010101101111100101110011001100101110100100100010010
1010010110101101011111000111000011110010011001110001011111001000
100011110000001110000001100101101100011011110100000101001111100100
11111010001101111000000011100000110111100010010110001011111000
11111011110101110011101011111100100011000010000011001100001
1001001101101000010101111110000110111101011101111100101110010
101111111010111101110100011100000001111001001100011110000100101
11010001111110111011100001010101100011000101001100111111111110110
1111101011110001101111111101011111001011100001111101000111
1000101010111110110111100111111101100111111010101111111110011
1111111101011011101101101100101000111001111000110011111111100110
10011001101010110000111000100010011101001110010010101000100010
11111111001011111111011110101111100100110010001101101110001
1000000110000011001010111011111101110000110110111000111100101
1101110000101001100010111000110100000101001011010111110111110
1011001100100011010101010111000100100011001000110011110110011
1110010001111011000111100001011000000110011011101000010101111000
1001011111111111111110101111111110101111110011011111001101101100001
1100001111101111010011001110011110110011000101100111011101010001
1110001010010010001001001010001010001001101110001001010111111110
11001111011000110100011010010010100010010100010110100010111111
1010010011110001110001001110001100111000111100011001111000011010
1010010010010011001000110000101101001110001101001001001111011100110
1010000000110110100000010100100100000010110111000110001101011101
10110101000010100010100010100010110100010100100000111101000000111
10100010100100111101101000001111010000000010001100001011010001111
1110101001011001110110001101101110101000001000110101101111000000
```

110010110011010010011100011101101011011010100010100110000000011
100100101011010100010010001111000101100110011100010010010111100
110100101101010001010010000101101010001000101111011100010010100
111101010000111101001001011011011011110101111111111101111111111
110111110110101111101111101110010110011111011111011110111110101
101100000010000111001011001100101111101000010011100101110111
101111110101101111101111110100001111011011001101101001011000000
111111101100101110001000100000001101111101011011101111000000
111110000011111110000011111110011011001001111111100101111111110
100100101000111110001001000111101010011110011001110011011111110
100010111101100110010001000100101101111010111100101101011011000
101111100000111011010000001101010001101110010110010111110111010
110110110011011011101101111101110001111110000011011111101101100
111101000010011111000110101110110110011001001101000110100
111010000111000000111000111011101001001111101011001011100110011
101001100010100100101010010110100111110010000100011001001011101
100100110110000000010111110000001011111111100010110111001100
111100100101100110111101100011001000010010110001101000011010111
101010111100000111010111110111001011111010001000111000101111101
111011011011011110100000010000111100011011011101000011110111001
101100011111000010101111001010111011101001110110111101001011101
100111010001110111000011010110010001101101100001100001001111
111011101101001110011011010000110011110001101101000100101101011010
100001011000101101010001011110001001001000011011110110
110001110110000010111010000101001101100101100011100000100111011110
111110011111000000111001110100100110000001011111010011100111111
110111001000101111010000100110010000110111001001001111010001011
101101001010000111111010101011110000011100111010110011111010110011000
100011100111001111111001001010100010001010011111101011111010111111
101111001101011001000011100110111110110000100011000100011111100
110101010011010011101000100010101011010011000101001100001001
101111011110011110100001110000110110101111101111000100111001111
101101011001110101010111010101100100110001100000110100100001010
110111110100000111000001001110010000100100001001010100101010111
100000001001010101011011111010010111011010000011000010111111010
110100001000011000100001110011010111011001011100000110101000100011
100100111000000110011100011110000000000111100000011110000101110
101111000011011111001000110001000101001110001010100111010000001
110110100110011011000000111010100010000000001100011110111010110
111011100110101110001001011111001101010101000110110110111110100
111101010011101000011111000000111101101001111110101000101101111
110110111110011111011100111111001011111001101101000011101000110
111110001100110010110110101101001010010110000110011110010011111
110011010101110001001000010110110010000111101100010000111110001
101100000000001111100101011000000001001110111001110100011101111
110001000110001001001110111110011011000000001110000001111111000
110000110010111010011011010000000011000000110111000010101011100111
101001110100101101100000111001100110011110101111000001011011110
110000111111010110101100101101110111010000110111000001011011000

11100011010010101011011000010101010010010111101101100011 11000
11001001001111000010100100111101110001010110110001001000 1010
11000000111101001010010001100100011111101011010001111001 0110100
11111100001011001110010001100100110100001101010111100101 0011011
10010110011001111111001001101001000011011110001111101110 0100100
11001000011001110110001101110111111100111100101111010001 01101
10101101110010000100000011001001011011001011010110110100 00110
10001101111001011011100010010011101111111000011100010101 10011101
10010101100111011111001110001101000010110110010111001111 0110011
11011001110100001100110101101100000100000010100100011011 1100
10011100111100011100011001001011011111100101101111110111 00100101
11111000011100111101101001001110010000000000010101011101 100
10011000000111001001000001100100100110111110110010101011 10100111
10100101111010101001011001101100111100011011011001001100 00110101
10001001010001111011101001110100100100111111110100010010 11100000
11000000110111111000011001101010011010010100100011110011 1000
10111101011101000011000010100101101000111010001010010111 00010001
11010101010111110011011100000111111111000111110011100000 11
11011111011010000111100001100000110110011111110000011010 000111
10110010010001100110001001110011111011010111100110110101 000
11001100000011001010110110101000111111111000110011111100 101100
11011000001111000001010011101011000101001110000010100101 11010
11110001011101000101110110011110110010011011000111110111 00001011
10101101111010001101100111110101001111101100101100001110 0010010
11010011010111101100100100101100010011001101111111001111 01001101
11111111010000011101000111100111011101011101111110111011 0011
10000011101001011110001100010111000001110100101011001000 00111
11111000000011010000101101010100110011101001111011100110 00101
10101111101010001011110010110011010001010101101011100000 1101
10001100001011001001011111011000101010111100100011010110 01100011
11001010110000101011001101010110011010101100100000110111 11001101
10110001001010110110001011100111100010101100100111100111 011000
11001000011100100100100011101000111110011010011110111100 10000000
11111110011111111101100100001111000100000111101100011111 110100
11010001011110001001110000010001100000101100000111011000 0010
11110010101001101000011001100100001101111110101011011010 0110
11000110101100110000110110100010001100100011111111110001 111001
11101101000111111001001000011001001001111100010011111010
11111111110100110000010111000101011101101011001100100001 10110
10010010000101101011100111011111011011011101001100100101 0011011
10010110110110101001111100000000011110111011111000111101 110011
11101100000110110011000001110011100001101101010101100111 1011010
10100111000000110001110110001111110100001011100110001000 01110000
11100111001001100000011100001001100110100000111010001001 0111000
11110001000011100001011011000100110100100101010001001011 11110101
10110110001011110000101110110101101100100010011000100111 1010111
11101111011111110111101011110010101011000000100101000000 01101110
11011111011011011010010110110010011001110000100100001000 10100100
11011110111011110100010100011000101011000110100000110101 11111101

100101000010011011000011111101011101111010111011000001100101011101001110110100010111110111110110001110000101111010010011011110100010011100100011111110001010111011101111001110101101011111011101111101110011100010111111101100101111011011001100000001000010110011110100001101000001100000011011000000111000110011011101001100110101101001100101111111100100011110110010011101110001100111101111001111000111110111000011111101100010100100001110011110100111100001001011011000101101010010111110000000001111110110010001111100011011111100001110100011101000001101111010010111111111011100100111000111101111001100110011011110011100101001101111101110000011111100011100110110110001111010001111100100111000111101111111110011011110011110001111011000111101100011110011101111010111110000111100101110011000001110001000011001001100110110111011110110011011111011000111011010101110110101111010111001001101001111001100010100101111010001111110111101111110001001010001011101100111000111111111011101101111110101101111111100111001100110010110110100100001011101110000101001011001011100111111011000000010100000010011011101110100001001111011100111101110110001100011100111001101101111010000101101000101100011100110000101000101001111011101110100000011001100111101111111011100100001001011011001101110110110010110110001110100000000001110001101111111111000110100011100010100111110000000001110010000011111010101100110011000100001100110011100111011110111100011001110100110101111110110101111010111010111111110111011001100100010101111101100100100111100010001111001111011100111100001011111111100111011000011100110010001000100010100001010100000000101001001100000100110000001000001001110000011100000011000000111000001110101001010100101101110010000001011011110110000000110100100100010001000110011010110000010000101011010010010111100111011010000000110100000010100111001110100110000101000001100101100100110000100011011000010100110100000011101100000100001111111011010000111010000111010001011001110100000011000001101001111101000010100000110001101011110000010010110011000001001100001000010010101010011000010011110100000010010101100000101001100110011100100000010010100110011010110101010011000110111000101011010000000100100100011100001010011111010100001100001111000010000011000001000111101111100000101101101100110110011101100110011011111010000010000001000010001011111110010111100111000000000010010110100100000010011000111000000111110001110010001110100110101101101100010011001101100111001001000110101111110011000010001100011001101111101000101100101000110110010101000110001100111110110100010101100011110000010000100111000011011001001110111101011000001010111100111011101101111000000010111010100001010010110101111001010001000000111000010000001110100101000001001001111011001110111110010110011111111010011010001000111000110001101010010011011110000011100011000111000010001010010001000100001010110101100011100100011100100011111110100011100110101110000001110001111110101100100110010001001011011101100011101110011010001110100001111100001111101100010111010110010100011111101111011001111111101100111111110011011111101011100001010110011011

111010100001110011011010000100111011101100101001001001100001 1
111000011000100100100101101010100100101110000101000011111101 011
100111101001001100110011001100100001000110001011000010101101 1
100000000110011110110011100101000111010101101010100111000100 1111
101000011000100001000101001001001100010110110101000100100011
111011110010000010100101100101001011111110110100110001010001 1001
110111110010010010001100001101000000111101000011110001010001 00
100111101001111001001111010010011001101100010101000110001101
101100110101011111110100101001110111110101010011000111000000 111
101011000100101101111000110011011110100101000011000010000110 0
101011110000010110010101011011010110000111111111100010111101 110
110100011010110100111000110001000000101001110010010100111010 1110
110001111000101001101111010001010110010001100101111010000001 010
101000010111100001011000010010110010100011000001110110100000 0
111101100111111100111101001101101000100101001001011000000111 00
100111001000010010111011010111011010000110101110011101 11
111101111101001100001001111110111011101110100001111011001001 10
100101010011110100101000110111111101011101011100110101000101 01
110011011000101011110010110101000010000010100111010000110110 1
101010100001000001010110001010010100100010101111010111101000 0000
100000000000101000100100000010101110010100111100111101001101
100110001110011111011000010001100001011000001011110001000100 01
101110100110000111000000110101110000100100101100110001010010 010
110111100000110000011011111100111101110001010011010001001010 010
111100001101010100001110000001111100101001101111101001010000 0110
111110110010000100010110101110100110010110011000001110000101 001
110001011110001011110011011010100011001100100111000101001101 100
110010000010100010100100100011110001101010011110110011000101 11
111000010110100010010111100001111000011001011001110101010100 011
111110011111100001011111110100011000001001110000001000111010 000
111000110011110000111110100000111101011111110100011111101011
100000001001110000011001000100001100010100010000000110001100 111
110000001000110011000101110000001100100011010100000000010101 0101
101100111101101100110010011100101010100000101000110100100010 1001
100110110110011001100101101011101000000100110011000100011000 111
111010100011011110100110110101011110000011001110001011111101 10
110100001011110100101100010011001100111000011100111110100000
100100110010001101101101101001101100000100011001110000111110 11
100111011111000000110100011111011001001101011110100001010111 010
101001001101000010111011001101100001101001101101110000000100 110
101010110111101111111001001110001110111110100000111100000101 101
100110111010000111011100010100110001000101001011011010100101 11
101101010001110000011010001010100000100101111101011111100000 00
100100011001011000110110101100110001100100001100110011000010 0110
111100001111010001001110000001101110010010001110100101110100 0011
100011111111000000110110101010111110100110111000011111111010 001
101000111100001000111110010111100000001111110000101111100
110010010111110101110011100111101111110111010111110001100000 0101
101110110010001010000010110001101000101000000011001000011 01

100111101110001110111010010110001000001110001110100000000101101
111000111101100100010010011011010101001111101001111001100111
111010001100101001111111011011100011101001011011110001111010
101100111010110011011001101101101010110110110010001110001001
101110011111010011001101000010001101000000111101010110011001 0
110111000000100110010110100101000100110011001110101111001101 1
110110001110100010101000111011000001011011001101111011100101010 0
100010100110100010100101000001001110011011000001010110111110001
110110101011011100111011000011101001000111000010110011110111101 1
110111110110000011100001011110000100100010110000001101100000010
111010011011000000000100000010110110000111101110110001110010 00
101111011101111100000111100111100111001110001111100001111110 0
110100011000001111101101001001100110100101110100011101110111 10
111110111001101110000110111000001011110111010011011010101110101
100111100111011001110100000101110000010101101000101101110101101 1
111111011000011110011100111001110101101100111100111000101111 10
100100011100111011100000110111001011111100101111110010111111
101000100110000001011111000011111001111101110110110101111111 01
101000110100011010000111111101110000111000000011110100101110 0
100011011101100100110000011101001101000100010100101101000011 1
111100100101100100110010010001110000101001101111101010110010001
101110101100000101101110011001001000001100100010010110010001 0
100100000010110010001101100110100001110011100010111010000100110 0
111010000110010000101010110011111101001000111110101011011011110 1
110011101100011101111010010000001011111101110000110011111001001 1
111011110011111000101110000101011000100000001010111110000001001
110100001111000011101000100000100111101101000010101011101111 10
110110110110010000110011110100111110010010011110100001001100001 0
111000001110000111001100000010101101010000101011011011010000 1
110110011111101000011000011100110111101001101101000010011001 00
111101001110111110110000000010100000110101011000011100001111
101110100101110000011001000101111011010110100001101100001001 010
100000011011101000100100010110111100011001101101001101010111 010
111100000001110110110001110111000101001101010111101000111110 1
101000111000010110111110101110101011011011000000101100011110 000
111111010000011001000001101010001000000100000010100000100111 1111
110101101011110110011001101110001100000001010010101110000101 000
110110000010000010001100101101100110001001000000010100011101 000
110010001110100010000111010001001101101100001110101001001010 01
100000010110111011010001101011101100000101110101110100010110 0001
111111110100011110011011100001101111000000110111100001111 0
111001110000111000001110010010110110100000011100111001110010 011
111110011101000101011011110110101111110101110010001000000011 01
110000011110010011100000011011110110010011011001101110000110 11
110111010010010111110001100000010101110110011101011000000010
110100101111001100110010011010001100110001011110010000000011001 0
111011000110110000110100011010110001001100100100000011100111 10
100011111101000011111110101111110000001101100011101100110011 0111
100010110110111110000000100111111101010001001001001011101000 0000

110101101111110110100111010001001011001001111111101000010010111
101110101111111001001111001000010011110000110011010000101010111
110100000010100001110101111111010110010000010101101110000000110
110100110011010111011001100111010001110100010101001000001101
100100100110110100110100011010101110000010100101101100110111111010
111111100000111001000110100001111100000010101101111101000010110
100110010011011111011001000011110001101110000000111111101001001
111110100010111100101100001001100111001000001100101011001011
101110000010100111110010000101110000010001101000001010110000101010
111000111011011011001111101111110001110011100111110011001010110
101100010110010010111100000111110110010010110011110110011001
101110010001110011100000100111111110110100010001110000011101110
111110110000011101000101111111010000010000001001001111101110010
111001101101100000101100011000011111111101100011111111000101010
111000010111111000101111110011011010101111111100001011110100101
100110011001001011011010011001001111111101000010100101001011111
100010001001101000111011111101110011110001101100110100110011000
110110100111011011011000110010011011111100110011111101011111100
111101100111111111010011111111110001001001111011001001100111111
110110110111111011011110001110000111011010010010111010001011111
100110001000000101010110110010000101010001010010101011001111110
100011100001100001010010000000101110110110101101111000010011010
100010100011010000011001100100110000010011011110111010000111010110
111100110011111100011011111011110001100010010100001110011100111
110010110011111100111000001001100110110011100011101010101101100111
101100100111101000011100000011101101101101011110011101101000101
110111111011111111110111111101011111111100011000010010111111001
101000011110010000011111011001100110111111110011011011011110
1111111111000101110100001000110110000001100110001010000111011
100110011000101001001000000101010110010010001000100100001000001100
111010000100010011100001110110110101101111100100011001110111100
110100000101011111100010111110010000001001111010100100010101100
100111000000111000000010001001011011001110100001010110010000001
101101111000010010000110111001100110010000001110100100111101000011
1111111000011111010011011010011001010110001010010111011110001
1111101000111110110100000100100100100011001110100111101111000001
100011000101000110001010011111101100011100011010010100111111011
110001001101110011100101100011101000111101011001000111010100
111011000101001000010100110100111101101001111100001011011000001
100110010000111110101101111000001000011000001100011011010001000100
100101111000010111100111100010110100010110110010110011111000
111110000010111101001010101011000100000100111101101101101101100
111100110101111000011010101000001100110111000001001100000100001
101111101000101011110100110110110101101110111010000011111000010001
100010000110100100101100100010110101010100100010100101011011100
100001011101000000111010000011111101011011011010000111000110111
111101001011101111100100011100011011010101001111101100110011110011
101100011001010111011011100100101000110001001101110101111100011
111000100110101011010110110011101001011000010001000000111000110

111100100011010111101101011000101110010010011000100100100
110111100111000100101110111110111101110011011011110100
101001001000110100100010101110001111110010100011111000110101100
110101111111101011001100100101101000110100000110101111000100
100011011110100100000111010010001100001001000110001100010011110
110100000010111001001101011001001010011010001101011101000011
1010101111001001011111101000111000010011101000011111100001111
101000110011000100001000010110110110011111011100011100000011
10111100010010100111000101010100111111011001110111111110001011111
101101101001101110111110110000111110000101010111001000000110000
111010110111101011110111010011011001011001100111100010000011000
11110110011001110111001001101111101101000000111101000111011000111
10010111001111000111110110010010111001111011000101011011101001
11000110010010011111001001010011011010010000111000001100101011000
110000101001001101100111000000110100000100111101110100011110001
10001100101010000110011100111000100010011111100100011110000000
11100111010111100000101111001001000111000000111101110100011111
1011000000010110110110011101110001001000101011101000000110110110
111000000111100111001100110110101101111010000011001010110011011
11110101011000000111101000100111100010111111111111110001111
111010010110111000110010010011001001011000100111101111000000
11000111111100011111110101001101100111011101101100111100010101
110101001010110100000000000011011011111011001100101110000
1000101101101011001100000101011010001100110011110110110011101010
10001111010001101110111100110110001101111000010111100010101111101
101111010010111000001111001100110011100111110101100010101101101 0110
10011011111011010001001100000110010001101110011011010010111111001
111010001101000100000110001111111100101100000101111010101011 0100
101000011110000101111010010111000111000110110001000010010001 011
111111011000000011110100001101101000000001011000101100111100100
111100010101001101100100011011011000111001110101011110001010011
11000110000011100010011110011110010000001101100111011110001 0101
111110000001110100010010010001001001101101011001100110110 11011
111101110001011001101111111001111111000100100010111010001 11011
110110100110111101111101010000011011001100100011110011100 1100
11011001101011011010010010011110010110101110101110110111100 1111
10011000001011100101011110011000101101100011011001100110 0011010
11101001110010011111011111001001001100001010101100101100 000010
10010000101000100101111101101011110110000100110010010111 11101
100010101101000001010010111001100110110001001000101000 0001110
100101101000101100100101110101110100010100011111111101 1001100111
110001101111000101111111010011111001001011101111101000 1100111101
111000011111101110001101000001010110001011111010000011 1100000001
11100100111011110001111011101011001110101111011100000 1111
101000110011110100011111111101000110011100001100011111 01000
1011000010100111101000000100101011111111100001100111100 1001011
110111101110101111111010000100101110001001111011100000 01010010
110111100010011011100000110100101011100101001110001010 0011001101
111000010110010000111001001111011111111100000000101101 010110101

111100011100111001010010000000101101101111110000110100000101
101100011111000110110101110001010011001011111011110110011110 01
100110011100000100111000011101111000110011101000110111101101001
110010011011000000111110011111000001110101000100100100111101
100111110000011100011111100100101111000001110101000100000110111
100011001011000100100110100101001100111100011111101010101 11010
111000011011001001011110000010001011000100101111000000111 1011011
10011111000111111001111111111000011101101000011111011100 0111110
110111000010111110101110010011100010110101110101000110000 1101000
101111100100011001110011000110110100101110101000011101 10010111
101110011100110101001101100101000001100001111101000011011010110
100101111100101110110111111001011110001001011000110 1111001
101000011110000110100101100010100011000000110101110001 01100111
110010111101000010111011100010001011000000111100000001010010
100011111001001111111000101111100111000001011101100010100000000
100011110000001000111101101100011000001011000101011111 00
1110010100110001001100111110001001001100010100011111011000 11010
101101000111110100011110011101011100000011110000001100011 10100
1111001111011100110001110100001001111011100111000111100101
110101001001100101001011101001011101110011000000110111010100101
101101010111101110000010010110101000001111101000000110000 0010010
111011110010000010001111000110111000011101111001110011100001
11100011010100110000110011000000101000000110010001011001 0011
110111010000110011101101011111001101111011011000101000010 0010000
111111111000100111110111110111101011100101001101001110111 0000001
1110001010000111100010011010000111101010110001100011110 1100110
111110001011110111110111101111000100101111101110011110111 00001111
11111001101111011111010001110000001001101111001110111 10111011001
1011110001010010111110010001010001101100011100100011111 011000111
110011110101111101011001100110111101001111101001001111 1000001010
111000001100010100101110110100001011001010111000101101 0111110010
110100000011110001010001001110010011101010011101000011 1000100
110001010000101101100000011011101011110011100100110111 011111100
1000001101110000001110101001101000111000011110000101100001010
1100011110111011111011010100110110110010110011011010001 01100101
110011110001110110001010110010101111110000010101000010 11110
1101101001011001100001001011011110001011110100010101000001 0000
100100101000110001101000110110100101000011111100010111111110100
100111001111111111001010100111111110010110110110011000100 1111011
100110111001010111010111000001010110010011001101111011010 011011
100011000101011000010101111001111001100111101010011110001 00111
111101011110110100110010010101110100000010011010100010101 00100
100010010100110001010101111101001000111101000111101000111 110001
11101110100110111101001100110110011111101011111110101111101011
110000010010000111110110111100000010001100101100010100100 0001101
111010001111001000111111000100101000001100111000100101010 110110
100101100001110010110011100110010101010011001000001001011001001
1010001100011101111011001100000101000100100110000011110 11100111
100101100100010100110111101111011110111101110110110101010 100011101

100000001000001001100011001101111000110010110010000111111000110
110000100000011100001000010101000001001101100101011101001000
110111001110000010001010100011000001100101011101101100000001010
111001001011110000000001110000110011011101011001100100110100
110010011011010110110110100111010010100110011111010100110101100
110100100011000111101110111010010000010000111101000101001010010
101100111101000110001000111100010100010110000100101110110100000
1111011100100110000011001101111101000011101011001101011111
101001100111110111000111000001000110110010011101010100110001111
101000111111110101100111100001100100000111001111101110011101111
000100110101010011110001111010001011010101110000101001001111010
101010011010101001011100111101100110111001110110100010000110110
110010110011111111101001011111011111101101000001010001010011100
100111101100111011010100111000011000011001001111000010100000101
110011110101110011111110011111110011100001000001010111100111101
100101001001001111111011100001011010001101101110010000110111001
100000111000101101001100100100110001010110101000010001000001011101
000101101000100101100111110111001011100111010000110010010000011
100101100011110000110001100000011100100011110010010111010001010
110000000100111111100111010000101000110010001111101001100000001
100000000000100010001011101100101110101100110100010011110000010
111111010101110001001100000001101100011111010001100011100110
1001110100100111111010110001011001010101011101011110000011111110
101101110101110010001010011001101111001100011100011011110110110
100011100011000011110110000001110001100110111000011000111000110
100111101010100110101101001000001100000011110001110011110011
111010010000011001001010011001101100010111000100100001110000
100110101011111101110000100011110100100101001100100000011110
110011001111111110000010011001110000101111000010111110101000000
111110000101111101101001001010111101100100100110101100010100010100
111000000100111001001101010101100011001110001100101010010010000010
111100000111100000000110001110001000010011001111000001000010
110100111100010111010001010100011001000000101110000001001010
101110100101101110100001110111101000011110001111001000100111010
100011111100101010011000000110101101000001100000100011111101101
1111000000110100011110100010011110001100100011110001110111110000
111101010100011010110000101000110101010000000010000010001010001001
10100101111011101001100010100010101000010010011001100000000100
100100011011110011110010101010010011001110111100000101000100100
110000010001110111100101001100100001110000010011110010011110101
110000011001111111000000101001110010110101111011010001001000011
1000101000100011011111000101110001011111110011110000111110100100
100111010000010111000110011001111110010011011111010100011111111
111110110101100100000101001100100100000000101011100011100000
101011010011100000100110001001011011101110100000011101111110101
1001010101001010011000010101011111100011100011101101111110110010111
111101001010011001001000010010100001101100100101000110010011001
100010101011011010000010111000010101110000111011111000111110101101
1000000100100001001011011111011100000100000100100110000001100001

111101000111011111001011111100100011010010101011001011101001111
101000011001011000001100001100100010010010001111011011001110100
110010000111010011000110011101011000111110111010110001010011000
110100001101000101001101101110100111010011001110111100001110011
101101000010011100001100101100101011011001000111110101100100010
110100111110010110011101111110100110110001011000001011111
110110010011100101111110100110000011000010000011100000100011110
101110000001010101011100101011110000110000011001100111000110001
100010010011000010110111011111101000101011100100100101101101010
101100010010000100011101101000000010110000110111001101101101010
110110001100001100111101010101010001010011011101000010001001001 1
110001011011011000011100001100101100100011110001010111000000010
101101111110111001010111000110111100001111001110000100001001100
100001010111100110101101010001010001100001110000001100011011111
110000100001001101110001111001000111000001001000000111100000110
111011010001011011100010111111111100011101110100010111111100
100001111101011101111000001101111000001001101000100111010000001 1
111010011101001111110000010110010110110101111010111000111011000
100000000100011010100100011001011011000001000101000001000110000
101010011011101110101001010100110011001110111101110000011100010
110001010001100000100110001010000011000000110100110100010101100 1
100101100000011010011110000001100000100110001111100001000
111000000111110010111111101001000110000011100000100100011110000
101000110101001001000011010000001001001011001001000001111100000
100011110110001101111110010001100000001010011011001100110011011000
101110000001000100010011000111100111011001100100011101000
111100100101100111110000101110000010001100000011111010000100011 1
100001110010100011001000110101110111111000010101001111110000111 0
110011101000100111010001011110111010111110111110101111011100111
101001001111010010110110010001100010111111010010101011000100100
110101101011111000111011100011011111100111101101001111111100
100100110111001100100011000110110101011001111110100001011100011
110111000110011100000111110000111110111000011010011100001010000
110000011110011011111101110110101111101011000111111010010110111
110001010100011001001111101011100000011101101011010001101100111
110011110001110111000110000010110000011100111100111111010010
110110100000010110101101011000010011001110111011111110010010000
110100001010011000010111111111100010110000100100100101010111110 0
110001111110100000111100001010101100011101000001011101011100101 1
100100010111000010110111100010110110011101111011001101101100001
101111010011001011010111000111000001111101101000111110100011 1
101011011011101000110011011010100110100010100000010010001101111 1
111000011111011010011001110111011000110010011100001010000110110
101100001000001101011100100100100011101101011110110100010110101
110000111101110010111000001111011010011011100001011010000110001
100100001010011111110101110111110010111011010001101011101010000 1
100101010011001100101000110110111101100110101011110101011111111
110001111110010010011101111011101011001100011001100001101100100
100000101000000101111010100000100111110011000101001011000100010

100011001011011011110111110100011010010101001001011010111110
110111110010001111111011001011110000101110101100010001110100 11
11110000011110000000011101111110000000011101100011010100011
10000011110000001111100001010101110111000010010101111110000 1110
10111100001000010001010010100100010010010101111111110011010 111
11011011110011010111011000101110011001001001101111110010001 1010
11001001011001100110001110011111101110010011110110110101100 11011
11111011000110001010011110110010111100000100001011001001001 11
11110010010110111110100010110110000010001010100110101000101 0001
11001100100010010011001101001101101000111110000100100110010 00111
11101101111010100011000110111111100111010010110010110011111 110100
10111111100000101110110100011011011010111001011011010001101 10101
11111101010100000011001001000111110001110100101100110110111 01011
10010110110110001001110001000001100110101100110110011001101
11101000111010001101111101000100111000011000101101100110001 111
11011100010010110001111001010111101000011110100110111100000 1110
10100001001011010000110100001110100100110010111010110001100 100
11010110010010110111010111110010101011111101100100011011011 000
11111100110001110010001111011000001000000001001001010001100 00
11110111000110111001000001000110000011010011111010011110110 10000
10100001110100011011111000011101110111110110111100010000010 00
10011111011100111101101000011001101100010011110010001011111 1
11110001010011000100100101100011000001001101100110100100111 0010
10110101101000000010010111110000110000011101001111100010011 011
10111011000100010101000010100111000111110100011111111010101 0100
11111101100000011100000101001100001010011011101000101011000 00111
11010000101010001001001011110000101100000001010111011101001 01
10001101000001000110011110010110110100000110110100110100001 011
10000001010110011000000010011101011011000110101110000100101 1110
11000100100101111001000001111100100101011000011011010001111 000
11000011001100011000000011101101110011000000100001011010001 001
10101111101010111100111001111100011101101010100011001011101 10000
11111100110111111001111110110011110001011111001101101101011 1101
11111101001100110011110011011100110111111110011011111111001 0111
11110100100011011100010010101001110001001110001110100010110 00
10011101000001110000011101110000001111001111011000000010100
11010011011101000001010110110010010110110001111011011011110 100
11111111001101101111101111100100111111010001111111001101110 0001
10101111001011011001111001110110101001101101011111001110111 11101
11101011101110110110001111100100101100010010111101111010001 100
11110111001001001111100001001001101000101101010110110010001 1000
11111111111010111111111101001111001000001111001101001111110 0
11111010111001111101011100111111011001111001101111001011111 11111
11000000011111100010101001110000010111111001000100111110111 0
11000000111111111110010101111110011011000100100011111111011 1
11111111111111011011111100111011111010010111010011001110000 001
10011000000100010000010110011001101011011110110000011011011 11001
11011100111100001011101100000110011001101111000000010001101 11101
10011011001011000000100110110100000011110010100100000011011

110110111010001011001110000100011100101100111011001111011001111
100000110100001111110110111010110100111011111101100101110100
100111101010000101000111010001100110111110010011111101100101111
100001110101111000100010011000101011010010000000101000101011111
110010111101001000000101011111111010001011011011110100000101111
101111110010001010001110001011011111101101101101010110001101110
101000010111001001000111100011111100001101111010101100111011001
101001000101111000101011010000111101110011111100100100110
100111011111011011001101100101110111101110011110110101011110010
100110000110100001010000100100110100101001101100000111001110011
111110001001110001001001111101100010101001101100100010001000110
100001010110110001001110000101100110101101101000100000101010010
101110011000000100110000001000110000101010111111101000011001110
111111100011000001110100000000011011000110100010100101100100010
111001000111011110110100101100000110001111011001011000111010100
110101001110000110001000100001010100011000000111010000
100110110100000110011011111001101101011100011110111110010010100
110101110010001111111011100110001100011000100101111101101100
110110010010101100000000111011111001011100000110010001001111001
101111111010100110010000010101011111101001111111101000011100110
110000001000011101000010111000011000111100001011101000010100101
100010101010011001101111101110101111111111010111110110010010
111101001111101010011001000011101111100100001110100000101010011
111000101101101001110111101100100111001000111010110000011110
110101110010010000010010100010001011010011000100011110110100001
111110010011110111111101101011001001001111101110100101101101
110111111000000100011000100000110010000000011010100101111000011
110000111000101001010011010010011011010100110110000010111100
101010000100110110100001001111110110110000101111011011110111011011
101010100001010010011001110100101111001000011111011011011001000
101110001001111000100110001101101101111001010111111000110110111
110010011110011111100011101010010010011101000110001011010101
101110001001001110100011111011010011011011011000000111000000
100001111011100011001100001010011011100000011101100011110100
111000000100111000010101100101101100101110110111000010000110
100101110101000000101111000011010111100001000111100001100111011
110001001111011011111010100101000000011001100111110010011011
101001010111011110111000000110101111100011101101000110001111
100111110011101110110100101111001000101000001110001101010011011
101100011000100111011100100011110111001110011100000111010011111
100011001011110011000010011100010001001101000001101010000111110
110011010110100100111110010110011110001001100111100000101000101
100000011001100000111101001110100110011010101100000100011011110
111010000011001010100111110100111001100111111110000100010100011
110100011100110111000001111101010100111111011001000100111101011
110110001001001011101100111100111001000001110001000010010110111
111010001111101001101011000010101010111100010101110111010000111
110010111111110101001101100000011011110111010001010011100011111
110000011000000110001000011101111001011100111100010011100111000

101000111100100010100111101111001111110100110001100001011 10
111000011110000011011110110000101001000110001111011000011011 00
101111110000100001110001011010100110000010111001100010001111011
111001000110011011011000000010010011100100000110001111101000010
110111000101100100010101110010011011110011001011010001000111 0010
111101000111011010000011001001010010110011010110001101100010011
100010100000110100010011001100010000110001010110111100001101 01
100111100000111001011111101011100100111100101111101011100010000
100100001011110110010011001100010101000111010000011110000000110
100111110010111001000110110100001010111001111111001111001110100
101000100111110100110011110000111000011100100111100111100001 0110
110100001101111100100011110001011110111111000111111100000110 01
111111101111010011111101011100111000000111001000011001001111 10
100001100011001000111101110011100111101110111110101100101110000
101100010111000010111000010111111000011100010111111011100100 1110
100001011011110101110000100110010010110110100000110011111001
101111100100110111010000011101101001100011101000011110000001 001
110110101000100100110001101010110010001110000000110111110101 0
101111000111111010110011111000011101110100101010010000101 00
101010000110011001100110111100100001011100001011110111000000 1011
111001011000010100010101011100000010101001110010011110110000 01
100001010011001101000001111111011000111010001110110011001011 1100
100000001111011001010000111110011111110000010110011111001000100
110011000100111011000111101101101010100100000110101110111011 0
110110100001010000111000001011100010100110110100001010001111 011
101110110011011111111100111111101110010001011000001101111011 01000
101111110000110000111001000101110100001111011010010011111000 1100
110111000011100101101100000111111000101100111100100110000000 11
110101101100101011101000110010110100011101110000011111101
101110101010010111100100101111100001011011100111100110111 001
100000101101000001100000101110100001111111111000110010100100011
100011010000101011011001010101010110110100111111001100111011 10110
111101110110100011011000111111110000001101100110100010011111 0101
101111000000100111101001010001011001001000001000001010101 110
100000101111000001100000100110000101011110110000110101111111
101000111011110000001110001011101111110010101101111100110001 10
111001111101110101111110100101110000000101100000110111110011 111
110001010111100010111011010000011110000101111010111011111000 0
101011100111011101011100110011110010001101110101011110111
101101000111101110011011100001011001011110100010111000000100 100
111100111001100111100010110011011010000110011110110000101000 11
101000001100110110011110011110010011000000111011011101101100
101001111110100001101111111100101111001110010110110011011000 1111
111011111110110001001011101101101001100111101011111010110111 1
111110001010011000010111101101000101011011110100000011110000
101010011110100011110100011000110111011111101011100011011011010 11
100111101101000111110001010011011010100101111010011001101100 0001
111111111101111100100111100000110010010100111101100110000011 1
111000110101111110100110000100000011110110110110011111011010010 10

101101100111011011001111100100111111101110111011111100000101011
111000100111110001101100011010010110001010000010011001101110
111000100110110000110110001011111010011111110100101101010011011
111110011011101110110011111010000110001011100000110011000101
111111000110111111111001111111100110111010101111011010111101101
101011110001011011000101011101001111011111101011101000110110001
100001010000011010010011011010111100001100101000000010110111
100001011001111011001100111001001100101110100101010001000001111
110111111010100011110100001111111100001101101111101000011100111
101100100000110011011110111100111101100011111010001111100100110
101110100101001101110111010101001010011001010000001100010011
101111010101000010010010011011100101000011110110001000000010000
100001110110011100001110011000000101010010101111001100111100
100010001000101110101010011011001111010111010011000000101011110
110000001000110001010011100000110000001000100011000000001
100000010010111000011000111000011110000111001001010111010001000
100111100000011000001100000100101111101101010001101010101101011
1000111101000111010100101100011011001110110111011000101001010001110
100101100000010001100011111010000111010111011111001110101111001001
100111100010101010100011000110001110110000001001101110001
100001000101100000010001101000110110100111010000100010100101011
100011001010000001000111101000001001010000001001110001100001
101001101101100000100100001111011110110110010000000010010100011
101101111011001110010000101001110001110001001110001001110011010
100110110001110010000001100011110011110001110000100001110000010
101010100011000000100100100111101111000010001110011101011010001
100000010101101000010100110010001010001100110011011011111110111
10001101000100010001110111111100110110101001000010000010100
100100011101100001011000010011010100001010010110001100100100011
110101111101100000011101000011101111000001001001101111000110111
100011101100011100010011111111110000010010001110001001110111101
100111100100111001101000000100101011011111011000111001101110111
100000001001101111011011110110101010111100110000100101010101001100
101101000010111110100111111101000111111110111100111010111101101
111110010000100100100011010000110000100001000010100010010010
1001001000111011000111110010100111010111011011110111100001111111
100011011111011001110011011011010111010110111111101010000101011
10000010011110001100101100111100011110110111000001101110011
101111111110010111011010000101000010001010111011010000010101111
100100110000100001000101010010100000011100011010101101100
100001101000011000110011100000101001011000110010001100100010110
100000010011010111000111101110100001100000010001111001001100011
101011001011010001101100010011110000101001100101111101110111000
1000001001001001110111110000010100010011000100000000000000
100001010011110100010010101100001000011100010001101001111010110
100111101111100010001100011000000111111001110000001001010110111
11111011001101000000010100101100001100101001011101111100011000
101100000101000001000110010000101100010100100110000011110110010
100001110011001100110011100001111011011010000111100011110011

100111100011110100101000110100001101101011110111110111111001
100111011011111010100101010001101111001001001000010100000011000
1100111100010011011111001111001110000111111110001000001001010
1011000011000101101000101011000011011101000000100110111110
11001000011100010110100111000101001001110000110111100101111010
1011000101001011011001111000100110000011000011101101010011000001
1010100010101011010111110000100111100111101110001100101100 1001
1000110010111101110000011001000101101101011011100101110110011 10
1100111011010000110110001100000101001110000011001111011101 0000
1000110011101100100100010001000010100000100100110101011100100110
100101001110111010101010011010101101010010100010100000111110001
1110010000001100100010101011001000110001110110100011010101 10
1010100110100011111101110001001110010000010011001000110111011111
1001100000001011011111101001101101010010001110000100010011 00101
1110100100111000011010110001100010101011100101011010000100001010
11101000101011000010101101111100011010110111101011110 10111
1010101011110101001011011001011001001101010010100001111110010000
1100100011000100011010010100011001111100001011011101100 1100
1011001101000111000010110010001111100111100011101000101100001010
10100000000010001101110010000011010100000000001001111001111 00
1001000000111001011011011100000011101100000100100101010 0111
111000111001101100100000101100001111010011011111111010000010010
100001100101100111000111000001011010110111101101111110101
1001001100110011011011110111110111001101111010010110100010 1
1111000010100110101111011010000111101111001001000110111011000001
110001100110001000110010001111110100111111100001000110011 0
1100101101000000000110001100110100000011111101001011001000100100
110011101001011110100100010010011001110001100011001000 01
110000011111100111101110111110010011000000110111010001111 1100
11000000101010110111000110110011011100011000100101110100 00111
1010111000101001100000111100000111100000111001000100011111011011
111001011000010010101110001000111011000101010101011101111 01100101
11001110010010111100010001010001100010110110011111011010010 1100
1101001011010011101100011011000000101110100010011010011100 0000
1000111000101010110111001000111010100001101011011110100010 00010
1011010000000010100000100011000111111010000000100100110000000
11010111000001110100010111111001001110000110110001011000000011
110100001100100000100111101000110010111100101000110111101111010
1010110111101100001100111000000101101101000101100011100101111111
110001111001010110011011111101110010101111101111011010101100011
1001001001011001011001001011111110000010000010011110110101101100
101001101010101001001000100011101100011000000100111001000
11111100000011111101000000111010000000011110100000101101000000 11
10101101100010000110110000111011111100011000010101001110010 1
101110001001110000111001011110100110001010011001010100010 1111
100100110110011100101111001011111001111001001011110111010100 111
1001111110001101011111010000111001101100010110000000010011100111
101111000000011100111110111101011100000011111100001101111 10010
1000000100001011110100100110110101011111110001111011100111111101

10000000010011111110100100001111100010111000011110111000000000
10100111100000011110110100000111100010101111000000100111110
11001100111100010111011011011001111100111101101000110101101111101
100111011010010011111000011111011100000000011000111110111000001
1100111000010101110000111010111011110011100010111010011110110101
1000000101101101111011111101010001001001101111101110111111111010
10110001000101101111110000100100001110011011000001110101110011
1110001111110011101000100000100001100101110110001101100000010
100011011101100000110101111000000111110001001011110000110111100
101001010100100100101011011110111001100100010110110101000110101
10000110010001001011001111110001101101001110000001001101000000
1110000001111101111111101001010101111000110100100000101000001010110
1110100001011011101111101100101101101001011100000010001101000101
110001001001000110100000101100000001011001001011111011111101000
11100100100101010010010100011001101011010000110001001011000
11101001110011001000110001101100100010010100100110001010101011101
1001101000001010111010010110110001001010101110001001011000011
11101111110101011011110100101111111000011101111001110111111101101
10100010100110111000010111110110010011000010010101100001011000110
11011101111010001100101100000110001000001001011111101110010100
10101101111000001011000100001001000011111010110001010000101
111111011010101110011111010101011001001010010010001010101011011111
110011010000110011011101110001011100001101001000110101111000101
10100011001110001100000101000101011101000100111110000101101110100
1010000011101101111101010100110100000111000000011001100110111000101
100111101000100101110010000111100000010101101000000110110010111
11001000010101000101000011100001011101011010100011000000011111110
10010001111110110001011110000000011111111001011100110110011001101111
10010001010001001111000101001100110100000100011101010101010011
11011010000010011001111011001010010000001010110010101010001100 01
101000101011001000101111010001010001100100001111010000001101
10101111110000000011011001101011100100000011010000011000100010
1000011011001000110010001101000110000111101001011010000
1111100001010100100000101000100100100100000000100000000000000
11001010110010101000101010111000000010101000100110110001110 00
1101011010000101000110000010110100011001101100101000100100111001
1000101100110110001100000111000010111011000011111000011100111100
11010011101000111101111000010111100001011101110000011010011111
11011001101111000011000000111010111011110110010110111000000 1001
11011011101111000010101111000001010011001101011110010010100
11101111111110001011110111010111010110100100110110011111101111
100110110010010111110011110001011001001101000100000110010011110
1000110111001001001111100110111110110100101100101100110101111111
10000111101000000100101111100110011010001011001000111100010001
10011000100101000011001010111011000000000110100000 11011
1011000110101001010100001001111110000001101110111110001110011011
11110000111001100100100101111101011000011010001100001100100000000
1111000001010101100010100000100000100001100010000110111110 11100
110110001110111100000001100001010111001101001101011011001100 1100

11101000110010101111101101101101101101000001111111001110000
10000100001111100011100111010000000011001001000010101001101111
11100101110111001010000010101111101101100001001011011001101001 1
10100100001000000000111000010110100011100000011100001100000000
11000011101100010000011111000101111001010111010110000110100111 11
11000100111100110110000101111001101111000110111100110110111111011
11100100100110001011111110110100000101101111001100100111001000 11
10111101100111110101000011010001110000011110010110001010011010
10011110101010100010000011001111000001101110111001000000001010
10101110111110001010001010011010110110101100001101010110110101 0
101111011111111001101111110011101111111000001110010010011111 1110
10101001110101001110001001111010000000010010110010100101110011 01
100111100010111100011000101011101101010000101000111111000111000 10
10010010101110101001001011010001101100100100110110011111001110 10
101010100011111001011000110100001000100110000111110110000000 1
11000111001101110101011111111011101111111010010111111111001101
111011110110101000111111010101100001100000011001101001101100 01
11101100111100110111010110111111000101110100010010001111100011
10011100110011010111111100101111110000000111000010100010101110 1
111010111101101111101000001111111100000111111111011101111111010
10001110110111011101111101100110100011001000001010111010010111 10
110111101000100000111101100011100010100001101011000100011001110
101001100110001010011010000001111011001011111011100011111001000 1
10000101111010101000110010010001110000010110010110010110010010 0
101011100101011011001010101010011001001000100110100011101001101
11010010001100100001011110010010100110000010010000010110010110 0
110000000000001010111100001001101101011111100100011100001 00
10010011000011011110101000100101001010111001110001101110010 01
100111110110110111111000011101011001111111000001110110100011101 10
100100000001110000011111110110100110100010111000101000111100100 0
11000111110010000110000010010101000001010111110000001110111 0111
10111111101111011110001101110000101111000000001110110001001100
1101110110101111000110110110101001001100100011110100110100011101
111111011001100001110010111001111001011011011001100110011011 1
11011011010001001100100101110110010000110111101000011111101 00
11110010110110010011101011101111101110001100111101111111111001
110110001100000100110001011101010000001000010110010011101
10110001010101101100000111001111101110111010111010100110100001 10
10101100101111010010000111110011010011011011111101011001000 01
11110000011011010000111101110000011111101110010111000001 0001
10010000011111110011100100011100000110110001000011110110010 1
10011110110101000001111000100110010110111111101110110100001110
110110001100000101100110011111111011000110011010010011111100010
10111001000010111001110000110000011000100010101011001100111000 10
11100001110110011111001011100010111011110001001110110011110011
110111111100001001001110100010111011111001011010110110010011011 1
11011100010011001100111100111010111000010111100001001011110 01
11011011101101100010011110110011011000001111000011011111101011 0
100101100100101011101000011001000101001101100011100110111110 01

110110111100101000001001101101000111011000111111000111111101001
101110001111011001100110110101000011011000101101110100100110100
100110101010111110110011001010010100101101001001100011110110000
110111101111011001111001001110001111110110010000100100100110111
110110010011110000010110101110101011110001011000101001001110100
110011011011111001000110101101111001101011011101011011110010
111011011000111011111001001001101100010000000110010010001011
110101111110111001001010111010000111011110010111011001101100
111110010011100100100001101100110101000110001010010101011010
111010011110110010110111111000011111010011011010001111101110110
110010110110000011010100000100111101010101011000001110011001001
101011101110110001011111100110010111010000111110000101111110000
100010000101010000011001100110010010001100101100111100001100001
111011110100101110111011011111100000101110010001010111101001001
111000001100101001111101101000110110001101111000010011000001100
111100101110111100110110101011100000011001000011000110011010001
100111100001100111010101110100001000110100001110011100010010101
101110101010011001001101011111000001100111001001011010111001101
110010011011000100000000100100111100010110101110111100001101111
101000111011011011001111100000110010101011011000110011101111111
101101101001011001000100011000001010100101110010000011111010000
110111111101000011000001000001011010011001111001011011111100101
110111100000010000011010011011011010110101000001100000000000
110001011110101110111100100110111111100101101101011110110001111
101101110000001000110110010101111111100000100001110100001011111
101010000001100101011010110001000101011111000100001111011001
100100011001101011101111001101111000001110100001101100000101101
110100100001000011001001111000011101110001001111010101111111
111010000101101101100110110011011000110101110001010011011110011
101001110011111011101010111101000010011011100110110100011010
111011001111101110100111111101000011101011010001011010100111100
101011011110100100111010001100111110100110111111100101100110001
101111110011011010010111110111001111000100111111111001111000
100000011010000110001010001101011011101010110111110000101111111
100111011110000010011000000111010101100110111110100011001000011
110110010110111100010110011010001101111101100010010100011000100
101011001101011110110110000011100011101101000110111111100111010001
110100111011110000001110000010010111100010100001100100010111011
111000000111010011111010111100111100101111011101010100011100101
111101000111100111000110011101100001101101100010000111011011111
100011011100100011110101011000000111110100010001010100000011101
100110110100001101101010001000111001001111010110110011010111011
111110110110000001011111100011100110010001011110000011101111010
111111100001111100111110000010010000001010000111010111101110
100100011110101100000010010001101111011001101111010111000100110101010
110110100101011011010011101000110000011001110011111111001000
110011010111101111010000011101100100110111110101000011111111
111111011101101010110110001100101110010101100110011111001010001000
1000000111011000000011100101010100011011000111011011100010011101011

```
11001110000001110011000011100010001100110011111000000110010100
10011000010010110110011000010111100100110011001011111000100110 1
101011100011101100110101111111101111100011011100000101111011010 0
111010101101011101001010010001101001010010111010001100001111110
11000001111111010001011110100010101010001110010110011000000100100 0
1001100101011111011001010110101011001000100001100001011001111
10001000111101110011101010101100110001111100001111101111110000110
111010001011001111001101111000101000110011110111011001100001 01
100000111101101010111001110100101101110010000001010010001 00
1110111101110100011101101110000011111101111111111011101000000
1001001011101001100110011100000010001101111001011111010011010 1
10011111000010101110100000111101110011101111010001011001001100
1010000100110000110001000011101100011101110010011101100101011010
1111101001101101001001110100001011110100110001111100101001001
10111011011111101111111110001011011111100011111010101101111100 0
1011011111001111111010010100111101010110011001111111000011111
10011100111010001111000000110110010110010010111011101001010110
101111010011000101111001110001001110001111011111110011011111
101111101111010001101000001110111011111000010111001000101111110
10111000100111000100110010111100100110111011011000111001100100 01
111010111101111101001010011011010100001010100001011101110010 0
11000110110000010110001100010101010000110010110011011000001011 0
10001011011000110111011110111001110001001000111011111000111001 10
10011000011100100000001110110000100111100010011110110111110101 0
1100111010110110110110001110001101010110111100101011011101011011
100011110100001010001111111010111100001110010111110001111010000
11000101011101111100111010000010101100001001100110100110011101 0
11101000111111100100011000101101000101111000011011000110001001
111010000010101100011001001101101011000101000000111100011101 01
10101011100010001100000010110000000001100001011001111000000
10100111111101111011110111001101100100000110110101100011110010
110001011000001101110001011011001010010100111101100111101000100
11110000110000111000101111110111001111110100001100001111111001 0
1111101111101101011011111010101101111110000110111001100010001 00
10010011110100011110011011010000111011110100001101001101000111
1001011000011010001100100000011111111101111111100111101010011 1
10011001100001110010101001001101100001011011011001101011111000
11110010001101111010011100110010110011001101111011100111000110 11
100100101111010000100011000100010101010001100101000110011000000
1011001010001001010110100011100000010011100100101010111100100 10
1100000000111010000100100100011011110000111010011110111111110
11000111000110111101101100101001010100100000011110100110000 10
111100100010011100100011110111101100011000000001010011101110110
10110110011000001101111010010110001001001010000111011001111000 11
110110000100000110101000101000011000000001100001100001001 11
1000001010101011111110101010001110010100011110000010000010000 0
100011010011000001100001111011010001100110011010000110001111 1
10000110001000111010110101110000010001000000100110011010001 10
10111110000010010000011001001010100111001101011001111100001000 01
```

10110101011110011011101111100101000001010011000001100111100111
11111110101100000010011111110101101011001111000100010001110011
10011101101101111010001110001100011011110111101000001000101000
11000101001101101100100000010010101000101010100101101101001000
10100110110100001000100110110001001101110100011000010010110000
11101001110100100011000000000010001101110001001110011101011
11001010101010101001111010111110111001111111000110111100110111
11110000110111011010101101000011011001011010111001101100011101
11011110010111111010111000110111101001110010010011001101111000
11101100011101100011100110110010101111101010011111100110011111
11001001111101001100110010101100101010111011011001000101101110000
10110010010110100011000101001000110011010010110001100011111111
10100111001011001101010101000001011110100101010100000101000011
11111001000001010110111000001010101110100001101011001110100111
10101000010100001000110011100000110111100100101001100000000010
100101110011100110111011111101101110111101101100110010011
11100110010000010011000000100111100011011011110000001111101011
11111001000111011011101011111101011100011011001111101100101110
1101011010000101110000010110110100000100100111001001000110
11100011000001110000100100000000011011011011010011100101111
1100100011010000100101001101101110000110100011011010100101010101
11001110001010010010111100001010010000100010011010001110110101
11011001110000010110100001001000110110011101010110111010110111
1100000010100110100110100001101000000001100110111000110011011000
101110000101110000011100010010000000101001010110001100010001
101111100010011000001010110010011011001001000101001010010111
1001011011111110110100100010000001101001101100111000011111110101
1110101100111110000101010110100000011001001011001111000101010001
11000001101100000100110111110000110001110011001101111011001110
101100111000001000100001000010010010110101110001001010110110
111000000110011011100011000011001001000010001010000000001010011
11000110101100100100110001110111110110111011110000100001110001
1001110001111000001100011001010110010011111100101001011001100000
100011001100000010001101101001101101011110001111101011001111011
110001101010000101001111010000100010101110110001110110101000100
1000000011011100011111100100100100010000000101000101001011011
10011011001110100001001110100000010110011100011010100100111000000
11100100010100101100101011110010111101111000111001010111001
10000000011011001011011110101010111010001000001010010001100101
1011011110010010101100101011110000111000101001110110111100101
11111101111101111100000110110011111110111110101110010111001
1110000110001010101011110110001000101100011000100001110011011111
1101010101110011010000101011011101110001001000110101001101000
110110110111100110011011110011011000001111010000101000101010110
10110000110010010010010011001100110011000110001011111010001100
10110011100001100001010011110101110110111100111011101100001101
1110001100110111101001101110000011001100001100011010111010111111
110001111101000111100111011100010101100011101101001100110100010
10100100100110111100011001010100100100100111101101010011100011101

```
111100000010111100011001100111001011110001110001010011001011111
1101010001011010000110101010011001101111110111011000110001001010
1001001110100010100100100011100101100000001011101000010000111000
11001000100100110010100001001011000110100001100000101111110 11
10000001101001000000111110110100101000010010110100001000011001
100111010010000010001011100000001000000001001110111101000100100
111010001000100111001000111110010011101001111000101010011100001
1011100001010110111110100101011101110110111100101110111011001010
1001001111001111000110110110011010011001011110110111101100 11
100011100001110000000001010000110011000111100001100011010010000
1001001000011010001110100001100000000100111010001010000100011 01
1110110010011000110001011011011001011011011001111010011001111011
1100100011100011110101111111100010100011000101110101001011001011
11011110110100011110111100011001001100001101100010110010 00010101
10100011011100111100111010000110011011000000001010001 01000100
1001001100011100111101011010100110011000011110010000 1001
1101100111101110111000110110000111001011110110000111101000001
1011101001110100110000110111100110111100000100111001000000011010
100111000001110011110101111101000011001101001110001011 0001000100
1001001111111010101011100111000100011001000100010010001 0011011
11010100010111010011001000111011111101101001101110001100 0010001
11011011011101001010111011010011000011011001101011111111000110
11000001010011001110110011000011001111111100100101010000 0110010
1110111100100101110110010001011011101010100100010001000111001
1100111001101101000101000100110011000111110110010110010010011110
1011000010100100111110110001101101100010110011000111111100 1100
101001000001010111001010100011011001011111101001100111000110011
1100001001110111011000100110011110001011111000101111001001111000
1111010000110011010111101011101111011100100111100110111100111 00111
101011100110111101000100111100000110111011100011000000001010010
1111111010111101110010011101010011100111101110010000011110000010
10010000010001101111010001001010000001010111110101011011010001
1011000100011001111010101001011010010110100010100010111110000 11
1110100000111000000010011000000011000110010111001110001
111001100100110110100111011110000101101010011000111101111 11010
10111010001110111110111010110010010110011101101010001100 0000001
1110110000000111011010111101101000111100111110101010101101000100
100100100110100000101010010010101001110011001000101001110100101
100111111101100101111011110001001000000100011000000001010011 0001
100101001100001010100000100011010100000101101110110100011000100
1110000110100011011011011010010010110100110100111000011011111 01
1010101010101110010110100111000101100110101101110011001110001001
1110011111000001000010101100110101011111000010100111110110 01000
101100000001011011011010011001111011001001101001011001100110100
100011101011011001100100000110001010010110101110011010100100100
10010010111100111001011100110001001101111001000110101010000 0000
110011010001111100010001001110110110111100110001101110110001100101
1000110011000101110000000110110000100110101011011110101010 0100110
111111010011110101101100000101010010010110100010000101010000 0101
```

100100100100011011110011111011010001010000100111101000111101
101110110001111111101000101101111101011001001110000101001111101
111100110010111100110011001100111011010111011000110100010010101
100101111110000001011001011011010011001110001011101100111011
100000001101100010100111100011010001010110011010000011010101101011
100010101110010001111111011001001111001000100011110000011110
110011011110100001011100000111001110100111111000010010000000110
110101110101101011000000111001111001010011010010110011110000110
111111000011001101110011100100011010110111001000110000111001001011
111100010010111011111111010110011110110010111000110010101110000
101011001101111001011001011011101000100101101111001011101001
110010011011110100110001100100000111010011011011000011110
110000001110010011010011010010011110001011101101010100110100000
100111101001000001110011110110101101000000100101111110001001111
101011101111011110100101001100110001100111010000111011100101000
110010011111001000011001000111001000000010100111001000000100
100100110011101011110110111101111010001011110111110011111110
101100000110101001111011000000111100000110110000111110001100000
110011111001101101100011100100011110110001111110001011111000011
101111010110101000101001110001111100110110101001110101001110011101
100000010111000000000100010111010000101101100000101111101011111
110101100000011001100011000000101101111001011100011111011011011
100011101001011001100001101110100101100111100101101010101000011000
110011000000001111010110010111010001111100100110001110000
110000100100100000101000101110100000110101010010000001101101010111
111000011101101111110100010111010000101110100010000011001000010101
110011000010010010001000001101100000000110100100110100010111
1111011101110111110000010100111011000001011011000010101101111100
101100010100000111110101110111101000000111010111001111011011001
100110010111110010110101101100011111111000101001110010010111011
110001001010111011111100111100100100010010011111001000011101110
100111101000010100101110000011100011001000110110110000000011100
111100010001111101110010001001110110101001011000000000011011001
100101011111100110110000001011110110100110111011001111110001111
110001101010111000101111110010011011001000101011101110001001100
100100100011110000001111000010111101001011101010000010101011
111001101101011010111101100010111101111001111110010100110011011110
111001100110010011001101111000100001010010001101100010010000011
100000110011011011011001000010010010000011001001101101010101011
111100100001111110010001111011100000100100100100001011110010011
111101000011101100100100011101001011101001100111110011110001111
111000001000111011110101110000100010111101100010101100000101010101
100110110001101010110000101101110110111110110100101100101101010
111110100111100110110101001111101001111011000111111011101110000001
100010111110110000000010011001100111110111001010100111111101001
110010001101110000101000100010011001000111010110100001011011000
100010110101101101000010011011001110010110110010101100100001001010
111111111010110111111111000100110010110011111000010010110101010011
101100111110001000001101000001100100111101110010011101111101011

111000001001011011010010011000001101111011011111001001110111
1010011101100010101110111010011110011111011000010101101100101 0
1010000110010110110010001100111011111111111000101010011110100 0
1111100010111111010110111100001101100110011001011001111101100
110010001001000100101010000101010110000010100011001110101110 01
1111000111010010000110100001111010010010101100111111000001111100
1111000100000011001001001001110101111110011100111010000001101 0
10111111100111111111100110111111001111110101111001010111101100
1000101001111110001010001001110000001000001010011110101111111011
1010010010010111101011101111110001110100011101100111010100011
1011001110110110111001001011000000111010100110110100011001011010 0
100101011000001101001111011000111110100101001011001100111111001 0
10000101011001111000111011111001100110110110101010010111011011 1
11000001111100010100011101011011101110011110101000100011000110
111110011001100100111011100010100011111100110000011100110011 0
1010111000111111111000011010111011000110101110001001100100010 0
101101001000110010000010011001000101100111000110101010100000011
110101011011011010111011000010010000111011110011100101011001000
1000101010101111111010101011101000001001110100111000110100100000 11
1001110010101110111000100100111101110000101101100101101010011 0
10111111011110001010011010000001001011010000101011011110100110
1101100100101001101000100000101011010010110011100110010001001 11
100101000010101110110011101111110100011000011111110110000011
101010010010110111110000111011001000101100111111000110110011 0
1011101110011111110011100001101100101101111010111001101100110 11
10011111000111000011101100011111111000000101010110101111101011 00
1000110010000001100111011111111110010111101110000111110100110 11
1111111111001010111000010101100000010001100100010011001101100
101101101111101100110101111101111101000100011000100001101101101 1
1101111101000000110000101000010111000000111100001110111110100
1111011000110111001000111011011100111101001001001011001000 0
1010000110011001101011000110001010111111100010100011110010 01
10110110110010001100010100111111100101011100001011000110111 0
11001000100011010000111010000110001101110100111110100011111010 0
10111011110100010011111110010010000000001010000111101001111 11
11010111110100111001101011001010110101100010001100110111010001 0
1101010100110000101001111000001010011011110101010001111011001
101011011110010101110110010111011100111111010010000110110100101
10000111010010011110100001010111110110001110001101001011100101 0
100000011101001000111101011101001000010100100001100110011010111
110011000011111101100110100011100010010000110010101011101110100
10110011010000001111000101110001111101011100011101000011100001
111000101100110010010101111011110110011101110001000101000110001 0
1011110111111100011100011100010110100111010010101111101100011 11
100100011000101000110011101100100000011011110110011101001000 1
1100100111100010101100110001011101010110001010100011010010111100
1101100110111011001100111110011110000101101101101011101110011 0
111100100000011000110011101001001011000011011110101111101010 01
110000010110110011100010001011011001100110110011111101110

111000111110001111101000011011111011001001001111100110111101
101000001100111011001000111000111110010111001001011111101011
111000111101100000111100000101001001000111010000001000101001110
111010001110101110010101011100110010010000011010010110011010001
111010001111100010011111100100010011001110010110001111110001001
111110101011110111001010010010000101101000111000000000110001
101001001000000010001101101101011010000001010101011000000010001
111100000000010100000110110111101000011111111011000100111010001
101011110011110100010010111000101001100011100100001011110011010
110111110100100101100100111010000110110111000011000000110101111
100100001010101100111101011001100100010100011111011011111100010
101100110110111111110001100001111101100011110101101011100010001
100111100001010101000110101001010101011111100100101011101110000100
110100001111111011111001101111100100110110100101101110000100
101000110110101001111001011001110110000011100000111010000111100
110001010111111001101100000111011000001101011110100010101111010
110111110101010011011000100000101001101010110111011111010100010
100101001010110010011110100101111111011011011001000001101110001
100011110011011001101100001100000011010001100000001111011111000
101111101100100111110000011101110010001001111000111110111010
111101110001001101101101101010101001101001011011000000100110010
101010011010110011001111111010101100011100110011010011001010
111011000100001101101001110000010010000111110001101000111110101
101001010101111001001001111011111111110110010011001101100101
101111110000110011011110001001000000100000110010110111101111110
110110011010000000010100000011011101110100001101010100110011000
100011000100010000111100100000111101101100110011101101100001001
100111001000011000001100101011111100110010011111100111111101011
110110011110011110011011000001001110000010110111101100101111111
110011011000111110010100001011011000110001110011111110010010111
110110010001001100000011010110110010110110111000000110001100000
100001001010010000110110110110011000001110010010110111100010000
101010110011010011000000001010101010001110010110011000100000111
111000101010101111001000101110001000011100010111000010001010010011
101000101001101011110100100100110110010101011110010101011111
111101110001000000001100010011101101101011100011110000011011000
101100010110110001000101100010000100111110010111101100111010001
111101010101110000010101011100101011111101110010110111000110111
110011011010011011010110111101110100001111011100110111011111101
101100001010101110110110101001101110010010111101100011100111011
100011111110010010101101111001101110010111000010101011101100110
111110010010111111010110010100001010101110000011100101100101001
111000100000111101100010010110110001010110010101010011011000001
110000100110100101110010001000101110001000010111101100010100011
110111111100000001100011011010000101011001001110011100100000110
100010110101000110100010101011110001000000101011001100011011011
110101111001010100101100001011000111010000110011000001110001011
1010101001010101011100110011100100110111111101010101011011011110
10011100100110111001010101111111110000000001111000011010111010111110

110011011100100011101100111110110001101000001010011111110011
111110010011000010100110111110111001111010000000100111011110001
111011001100110111110010000101001111101100001010111000100100111
100011011100111110010101101110000101101111011101000001110101011
100000010110000011000011011111100011101100010000101000111101
110011011100010101101011011010011000100001000101100100110101001
111000011100000010011100001010110011000100000110000010111110000
110101111110111100111011111000000100100111001001101111001000
110001001000001111001001001110111010101011011000010011110000001
110100001101010011010010001011000000110011100111110110001010
101011000110011001111100011000011000110101101110110011001011010
111100111111110010000010000100101111110100101111011010011011 10
110110010000010011111100011100001010011111101110000011000001 1110
101110100001101000111011010101101110010111101101110100110110 0001
101111110110110001101111100011010110110111001001011001100010 10
100000101101100011100100000011110110001001011001111011100 01
101101101110010110110011001001110000011111001110010011110111 1100
101111101010001000111000101101001111110001011000110101011001 01
101101001011010001011101001100010111001111000100100111010001 000
100101111010001010001110010000011000001100111011001100011011
100000010110010001011111100110101111110110101011101000000111 010
100010111111000010110100010110001001111110010011100000101101 10
100000011001001000001011010011000011100101110111111000100001 0110
100101100101001011100001011110100111111100111001100000110110 11
100011001000011100011110110011011111111010100001011111110011 110
101101001000111001010111000011100001101101011000101110011111 01
111011111101101101101010110011011010110001101000101101101001 11
111011011011011010111001101111001001101111010000100011001101 1010
111010110001010100011101011110011111011001111011100111111101 00
101111101110000100100111000011100000011110000010101101111111 111
100010010100000000000100100000001100101100010011000001010011 010
100111000000100110110011101011110001000101000010000010001001 10
100000111001000001001101111010011000011000101110010110100000 11
100000000001110010010000111111001010001101001101000101010111 0
110011011110011000011110100001100011001100110011000111100101 10
101000000010000101101000100110110101100010010100110001 0000
101010100001100010000000010000100000000111011000000010011100 0
110101000000101001001001110000110000000110111000100010001111 0
101101101010010100110001000001000000011101010000000001001000 1010
100001110101111110001110101100001101000010101111001111001101 11
100101001001010101101100111011100111111100111011010001000010 101
110110101111010010000101001110000000110010010000001100100111 001
100011000100000110001110010111101100110000010011110110111001 10
110000111111101111110011000110010100010011101101001000010 01
101000000010011011101111100010000011000101101000001010110001 11
111010100101101000000010100100111011101111011001001001001110 1110
110011011111000011110011110110101101011011101111100000100010 001
101111010011100101100110001001000110001011110111101001011101 001
100010010101011101001011111000101111001101101101011101001011 11001

110100011110000001010111101100100101010111111011001000011110001
111111110111111111011111011110111101010111101010100111010100 11
100111000011111101111110010110001111100101010000011010000011 1
110000011000010011111101001001010111001010111001010111101011000
11110111001101001100000000010100101101000000110001100110000001
1010001110010011000011011011011100101000111111101110111101110
101000010101101010000100011011100000011100101001110000010110010
11100011000000101000110011101010101111000011011000110010 1100000
110010000100110100110100001001100001000100101100110000001 1000101
11010001100001101100100010011011010000110001011100111 10000011
110001110110111000111000011000110011010001101011010001 00001101
1111001111011001110110101110110111101000101011000010101001011110
10111000101000011000010100100011001100110100011100110110 11100111
101101000001101101000011011000001101011011011010001110001 0001
110110101101111100000110010100110111101000111000000110011011011
110011100111001010001100100010011100100101001010011011110 1000110
110111011010010110001010000111110111001111010101010000011 0110010
100100001001000011000001110011110100010010010111000 1100001101110
101001111110000010000010001010010001110111011001111000 10111
11000001010100011101100100011110111111000100101100 11000011001 0
100000110000111000010000100110011010111011010111011 0000 10001110
111011101110100100100100110001100100010111110001110101010 01111 00
10011111011001111101011100011011000100100101010110 0000001
111110100011110010011111101110011011010010101010 11011110010000
1100000010101010000000001010001110001000101101010001010010001
11011011101110100001111110000101100001010000011011001 1111110101
1101000100110011011011001011100101011110111110010011 0000000 000
101110000110011100110011001111100001100010111000 110101101 11100
1001101000101100110011001101100001001001111010100010001 10110001
10010100011001111110000100100001110001101010011001100 11010010
101011001001001001001101000100011101011101100010101011 111
1000110011010001100000010101010000110110000101000010001100 00000
100100001011110011001100111100000000100110001111011001101 1110
110010000110000010110011000001110001100010010101000101010 111111
11111101101111100111100110011100001011001101101000111000 0000001
100111001011110010001100010100101111011001100010101011010000101
1001100001011010001101110011101110100010101101111000110000001
1110101100100001100010000101000111100010110011000101000001 1001
10001111101011000111000100000100100011000010110001100110 10000101
10010111100001100101101101110000010011010010001111010 00111101
1000011000000010001100100010001111011000110010001010001110100000
1100001111101100100100000101000000000010101001110000110111101
11100001100101101100010100100100001010010111110110011001 1001
1011011010101101001110100111100000010001000110011010010 1000111
11011100101100110111010011011110100110111000000100111 1100111100
11000011111001101000000110000011000010101000110010010 10000100100
100110111110001100100110100011000011111010000001101000 0111010111
10110110011111000001100001100000111000101010001100101011110010 0
100001011110110011011100001100100110110100110011111100010100000

1110010010100111000011001001011010001000010100001010010001000
1111110101110111001100100001011000010001100011101101000111110110
1100101011010001001110100100100111111100100110101101011000110
1010110000010010000111000011111101010100110001100011000001010
1111000101111100000100110111100000101101011100001010010011001101
1111011010110011100001100011110100001110110100110110001001010101
1111000011101101000010111100011111010011001101111110010101111
101111110011011110001010011100000101000110010010100001101000011
1100000010011100010110110100001100101101111011000010110110110010
1000101011001101011100011101010001011000010001110110101110011
1101001011101001011100011110100101000001100010001000111010000111
100111010100000100111110010010011010010000001110101001001011
1000100111110100111010101001111100110100010010010011110110010110011
1101000000111100101111110001010011111110001010011110000000010110
1001111110100101111111000010101101111100011110000100101011000011
1110100000111110100011100111001000000111010100101100100100101110
1101000010000001001011100000000110000010111011001000011111010100
1100011101001010001001110001100111110010011111010011010100000000
1000110011100011110110001100101100111111101100110011011100100
10000110011001100111001111010011111100001011100000010011010
1010110000000010101001110010010111011011010111110001010100111000
1110111001101011100100001110110010100011001000101010001101000110
111101011011000010111010001110110111101001100100010010001010001
1100111100010010110001000111001110100101001010000111001101111101
1011111011010011111101000010000101000000110111111010001001101100
10010000010000101010110100001010100011001011101011000000110101
1100100111011000010100110111100000011111010111000000001100010110
101101010110111100011011010000010111010000111001110100101011111
100011000111100001001001111101110010001111011001011011010000100
11001001110011110000000011110000101101101010011111010100000101
1101100000011101100011011010000101101111000111100110001100000101
101011001111000100010000001001010011001000000010110000011001001
1101100000001000110111101100011001111000101100111000011111101
1100100011110001001111111111110100011011110111000100011000101001
1111110111110010111001001001100010001010000101010010011011110001
1110000000111101000001000110010101001111110110001101100101110
1100000000010100110110100001110000101101111011111001100011101000
1100011110100001010101001110010000111110000010010111000101010
11110001010111001110011010101000100110101110111001000000010111000
1111000001011001001010111101011001101101101100100010111100000001
1001101101110100001101100000101101010011111100000111101000101100
1101100011010000011110111001000110110010010101101100011011000000
110101100111101101111110010101111101101011111110000010001110000000
1110000010010000101111000100011100001101011001110010111110111
11000110011001011000110000000000010101100010001010101111010100
111111111011100110100000001101010110111111101111000011101011
1010000110110001001110001001010011111011010000001111000011110
111110010110100011111010001110010001111001100111011001011001111
1010011011001001001100010001001001011111100000110110000101010111

110010101100100011000101111100010111110001011111000011111000100

111111101011000011111011110111110010111111100110111001110

110001010110010000011110010010111001110100001010100011111101000

110111011100100100110101111100100101110110010000101011110000

110100100000100011001000000101000111000000001011101100111011 0

100000000011010000110011110000111110111001111011101000010001110 1

101110100001101100010001001000011101111001101010011111010100111

101111101110100100100000101001111010110011011110100011111010001 1

101110010000101110100010101110000100111100000100010001100001110

100011011010000000010110001101011110100000101110111101001011110

101010001100001110010110100000101001000010010001100111011111001 1

111111010001111001001011001111110100110011110001111111010101111

110100001111011010000111110101110111100011001111001011111010101

100010011110100000000001001000110011001001110001101100110 11

111111011110111001000011110000100000010000010011010111000011 11

110111010110000010111011010000010101000100100011001100100101 1

100010110111011001101101100000101100000110011001100100111001001 0

100010000001000110000110001001101110111111001000000010000010110 0

101010011111010000111111010001010101010110110101010010001000101011

101100111011111011000100001001001000100000100111111110000101101

110001111011100010101100010101110111010000110111111101001111 0

101110111011011110100101110010010100011011010001100000100010100 1

111111001010110011011001010010111111110010111111011010111111110

11110000101101100011110010101001101101001101101001011010 0

111111000101000001011111001000111110000110011100011000011000 1

101110111111001101011111101001011001001000111011101001101111100 0

110111101101111111101010111110000111111111100110110111101111 11

110100111111010001111100000011100011111111110011111000010111110

110100001110110001100110010011011101011110110010111110101101101 1

101101010110011001000100000010110000111110101001110110100000 1

100001011110000111111101100011011000101100110110001001111011110

111110011011010010111111110110111110110101111111001101100001 0111

111110001101101100100001111100101010111001111010010111110 01010

111011110001111111110010010111001010100011000000110000010101 1

110110011011001000110010000011011010010111000000100100011101 01

1011111111010111111111001101101000111111000011111101111 0111110

11101110100101010100111010100111110100111001101110011011111 10011

101110010101110100100101110111010111101100010111011001011001 1101

100110010001001111101000111000110110001110111000110011010111110

111001000001110100011101000001100111100000010010100000100110101

111000111001001001011010001011101111110000011100011111110001 1000

1011010110100011110110100001110100000011000010010001111 10101

100000101100011011101011110001011011110000000100110110011001 1100

1000111101111010000110011010111000100001101011000100101111101001

110111100010101101111101110010101101110011001110101110011101

100000101000111101111110111100100100111111101000111110001111 1000

100110100001001110111011011000000001101011010111100000101101 0

111011110100001110001000010001111100011001110111011100101100 10

111001001011000101001011111011001011100111010100111101100110 01

111100100110111000001010111100000110111010101011011011000010110
101001101110111110010110011001000111010011011001101100110101011
101100010000011100011011011001101101101100101100111100100010010010
111011001000011111111011001101011011110001000011111101000110000
1001111100010100001000011000100010100111100001111110110000
100011111100100010010101101100001100110110110011011000111100110
101110111101010101111101101100010111111111011101111000010010110
111110111001111101110000011011110111000000110100010011111010100
111101100000011011100111011011111001010101101000000010011111000
110000101111110110101101010111011000100011110000111011010100
101000001100001100110001010011000111101100010011101101101101
101110010011100001110111111011001100011101011000101101111110001
110000001011111111100000111000111110101111101000010111100001111
100001000111111100110110110110110011111001001001001000110010000010
101010110011110110011001111010100010100010011110000111010110
101110110111011000011111110001011001111010001100110011110100011
101100100011100111001110010110010011011111001111001101111010
100101100111011101110110011000010110100101101100110101111101000
110010001000100101010111110110111010111010010111101000111110001000
111001011101111100110101011000001101010101110100110100011011001
101111000101011010011001001000101110010000010110000011011100111
100000011101100010111110100010011001100101010110111111000100000
110111001010100001101110001011111101110011100111010000101000001
101111110010110011010010111101011100101111101011000101101100011
101111101110101110100111000001111110000011101011101000000111010000
111000011010000111111101001101011101000100110000011011110011101101
111000101001111100000101110011100101010101011011000111011111110000
111101100010001101100010100100010010010000100111100100101010100
111010101001110000011001101111110000110110100000111100011110010
111010000111100111110011100101010110011010010011111100101100111
110011000001111111000011010110110001011110100010000011101000001
111011110001000110011110101101101000001011001010010110010011010100
111011101001000111110000001111010000101001101111110110011111010
101100000111101010101100110100110110100010111100011101100000000
111010010100001000010100110001110000001101111000001111110010000
100001100100000010101000101001001001001000110000011100000100001
100000001100110011001100100100110110100011111010110011100010
1110101011111001111011001100000001101101001010001000010100110100
11100001111000010100100000011111001111101010111100000111100
111001101000100101101000111100111000111111010101010000000110011
111000100110000010111000000111010100010101101111000001000110100
1010100101011100000111111000001111101110000101100000101001110111100
100000001110001011110111110110011101111101011101110010100000110
101001000010001000100111011111011001000111111110011110011
101011111111001111111100111011111101000101000001001100010100000001
100000001100100110100111011001000001101011101100111001111101111
110001010010010011100010101100001111001100010010100000001100001111
1001111101111100100101110001000100000011001000110011110000010100
1001111101000001100000011011000010111111010010001110111101111000

101011111000000111011011110101110111110001100111100000000110010
101110111110110000111001101010000101011111101111000111110000
110100011000111001110010111001110111100000011000111111100010111
111011010001110000011010001101011111011011100111101000001001
111011000000110011000011010010110011000001100000001100001110111
101010111110011101100100000110000110011110010110011100000001101
111001110111100100110011101000000001100001010010100110001100110
111111010000101000100110011011111111001000110011110001010001111
100011010000000110001111101111010001001011111001010000111101000
111011001000101111101010101001101111010001101111010011000010110110
101011000110110011101111011101100010010011111111000000000000011
110110001011110110100001101100000010001110110000101101101100
111101100110110110010010110100000010100111101110011011001101101
111110000010011011100001010010010101110101001110001010010110
110001110111000101000011010100010100111000110100100101111
110010001101101110100001100101000110001001100111110000000010000
111111000011111110110001100001111111011111001000110011110001110
101100100011001100011000101001111011100000011000011101000010001
111100111010000010100110011100001100111101001011110111110011110
110001101000110100111010010110110110110011000110100011101001000001
101101101001010001111100000101111000101101101000000111001100010
111000001101100100111111011001101001100010000011101011
111111100100111110111011000000110001010011011011110011011001
111001111000001100010000110001000110011110101111110101011010011
100111011000001110111000100110111010111000100101101111011001110
110100001110011100001011101010011111100001100101010111011001011
101100101110001011001111101011011110001011111110001011111011
110011011111110000001111100001101011101110001110100101100001110
100100011011100000110001101001010000001000100011100111010000111
100101100011101001011011100100011000100110001010111000101011001
111000000101001110010101011110010011011111001000100101011100
111100000100111000101101100111000010100001100100011011010001
100111101110011011000010110111100101010001011011011111110100110
111011101001111111101011011011010010000111111111011011011011110
100101100010101100110111101111101111110000110111011001101110000010
101100111110110101101000010011000010011011111001111111010000
111111101010010101101000011101101111101101111101010000011101
101101000101111110011010111011110011110001100111101011110110110
100100110111010001110011101011001110000111110001101110000000
101111011101011101111110010011011010101101000110010010110111
111101000000011010001111101000111011101101101000111101010110110
101100011011010010100011111001111001111010010110100011111000001
111110001011111000100101101000101101100111101100101100111111000
101010111100111111100011111010001111000100111100011100010110000
100001111110000010100100110110100110010101100100101101100010
110001000110011011000000001011000111101100011110110001111010111
100011101001101011100010000000101100110010010010111110111110000
100011001000000101101101100000101000110001101001101010000000
100111100100111100100000011001110000000110010011000100011101011

101110110110111101101111001100011111000011010100010110001110000
11011110000110010011000110000100001011001001001100111100101010
11100110111100011011001101100011101000110110011110110100111010
11110110010010001110010000000010111110000010001101110101100110
11000001100111001101001101100100110000010110010001010010010101
101100000101110001000010000010001010111111010000110110100000
100010000110011001111010010000010010010001010000111010001100011
10101010011001010011000011000100001001011001101010010010100010
1000100011001110010000100100001100111000111011101111000101000001
11010011000001110010100111000100010111001001001101000111100110
110011000101111110101010101110010000011111111101111111010100011
11100011111101111111100110111110001000001111001101101000111111111
11011001001000010100001100001100111100100011101111100100101000
1011011010011110100111101110011111111001100100100110010011111
101010001100101110001110011100000000010011110101111010010110101
1000110111011110010101000000100110011011110010101101000110101011
10001000110101110001010001101110110110001001100101100010010011
1001100111101001111110000011111100010000100010100110101011110011
11001010001000110011000011000011100011111100001010001111101001011
1110011111000100000001000110011010001101100110001001011000000110
1101010111100101110011100111110001010010001111001000111111110001
100001100111000011011100100000011111011111100111011011110111111
10001101011001001101101000100110100011000110010100010100111011001
11000111000101001000110111100000001001010110000000010111010011
11000010000110000101001101101101001101010111100010111100010111001
1101001011001110001001011011010101010000010010100110100000101111
100100101111000111010011000000001000010000111110100010110111110001
10011110011001001010110001000010100001111111110010110000010000
110000010011010001100011111110001011110100001001010111001111000
1111000001010101100001101000011101010000101011011100011110100001
11001110101111001111000010111000011110100011000101011010011
10111100001010000000111101100110001011001001100110111111000000111
1111010001100101000011100100111100011101111100000010110000010
110111001010100111001110101111110101001000000100010100000010001011
10100100011011100100100011001011010100100101000011101001001011
11000000011000010100110100010001100010101000000101000100010000
1100111001011001100111100001111101011110000010001111010010101001
100001000011000100101110001101011101101101000100101100010100011
101101000010010110001110001111000000101110100001010011011100001
1000100000101110011110011001000000101010111110100011111010
11111100000101110110011001100111101011110010100101000010011010001
101001110100110110100110010100110010100010001000000110111100111
1011000000100101000001110011011100001100001000001100010110001011
101000101001011100110011001010110111101011011101101111100010101
100001000010000010000011000101110001100110111100111110100010
111111110100011011001110011111110000001001011100101000001111110001
11000100110010000001101010101110010000011111101010100110111010001
100011010001110000010100010111000110000010000011101011110010000
11110101101100101011110010111110010111110010100111000111110101011

110101111000000111000000010111101000100110110001100010011001100
101010011100001101101000000010110010010110000001010000010000111010
1011110101011111111011000010110101000111010110011001100000001011
110110111100001010100011001010010111010111110010101100110111010
101000001110010101010000101010001101000010100110101010101000110011
1011001011001100101111001010111101001011111100110000010000011
1101101100111111110011111111000111111001101111111101110100
11010111101110001111101000101111001000010101111011111011100
10001111110100111010010100011001001011000010100111010000101
1111111100011100100100110000101000111110100010100110100000100111
1010001001011100110001100011011101110000101011011011100111101
11100100101000110011011000101011101001101110100000101101111110000
11001110001101010010001101010110010001110101101100111100011111000
11111000101110110100110011001001011010111111000010011100001101110
111110001111010100111010100111111000111100001100101000111110110
1011100111010000011101110011011100000101100110000011110101100110
11101010110001100100110001110001011010000111010001010110110010
1011101110001101111101111111101010101000000001110001100010001000
1100101110001000101101000111001000011101001001011100000011
101111101100110010111010001101011010010110101111001000110100
101100001110100111000110101110100011011111010001001001100000110111
10010111110110001110001110011010011001000010011001110000111111
111011001110111001111011001101101011001000101101011110111111000011
1110010111110010111111101101000011110010000001011001000100111
100010110011001000011110000011110110011010001001111011010001100
101000011100010110110010101000101110100110010110100010100110111
10100101111000110111110100010010001001101111001100010110100000111
10111000010110101000010100011110110100000011000000010000000
11000111001110111100111011011011000001010001100000111110100111
110010101111010000011110000000011101000101000001010001101101111100
11111001000100011100100110011001001000100000010011011011100010000
100011001101010011010000101101001000001101101101011010010110001
1000110011111101000101111111010001100100111001100111010000111
10011010011101000010101001000100011101001100010100111101
1000000011101000001001010010011001001111100100010111101000101100
1010011011011110101111110100101011000111110110111111111100000011111
1111111110000001101001101111011001010010111011110100111000100
1110001100111110011011001101000001110111010001100111111101100111
1110010111101000001011111111101001110101110001101101000001101001
101000000111001101011100101011000010101011110101000110111100001
111010001001011100111010010110110101110100010010010111001001011
11000001110111000001100011101001011011010100001100110111100111001
110011101011111110101100011101001110000001011100000111100111000111
1111101111001001101100101101100111100110010001101101000110101111
1000000110100101000110111100001011000010111010011111010001101
1100001101100000111000110101001100110011001100111101101101001000001
1011110000001001101111101111010011101000010101001100001110001101111
1100001101110100000000101000010101111111101000101110100011101011
11101001110000010100111000001010010100001000000110000000011111

100000010001011111001101111110101001110101110000100000101100000
101110101110001110000101100110001101111000101111111101110101110
100111100110001010011111111100101010110001100001000100111100011
110101100010011010111100111100010100110011001100101111000000
100011110000010110110100100110101011100001011111101000010011 0
111011001110111001111101101100000100001100100000011010000011 0010
111100011111010111010011111101101111000001011101110100001011 1001
110000011001011001100111100000001001010000100000010010111110 1
110011101010101101101001110111001001111111010000101110100100 10
101100011100110101110000111100000101111101001110011000001001 111
110111111101011110111000111110011111101000110111111001110011 0010
100110011000010101000001000001000100001101001011000111101110 01
101100101111001011011100101100100101100111100001110000010010 010
111001010110000010000011101111110000101111100001001100111 01
111110010001011000010011010101101000110011100110100000110 11
100101100010110011011110111100010000000110110011001111110 0001011
110110001000111101011011000111111000001010001001001001101 11011
100010000000000110010000101111000110110011001101110000110 11
110001011100100101101101000101100110010000111111010111010010
101110001100001000000101111000100100100010001000001011000 1101
110011101100110011000101111000101111011100110111001011100110110
111100110011101000011111000001100101001001001111110111000001001
100101011001010100110001000001001111101110010001101000001011 11
111110011011111100100101110100101001111101100001101000100111000
101100000100101111010001011101000101001000111101111101100000110
111100111000001110100011110011110111100110000010111110111001 01
111000000101010110011110100001111111001010011110110000100110 100
110011011000000110100100001010000111000000100110000011100111001
101100111110010101111111000011111010111111010000011000001110111
110011101111000011001101000000011000001111011010001011111111101
100010100000011010001000011010100011011011011010000011011101100
100110011001001001111111101100110001110111110011110011101000001
101011001011001000110000000011011001111001100100011001101001 11
110011101100010010001100100100111101010111101011101001111011000
111101100110000011001000110100100001011001100111011111111001
110111011110100010000011011010000000110001100111010000011 00000
100000111111111000101000000000110010111101011111110100000 10100
101101001101100011011110011100110110000110111000110111101010110
111000000011111001110101110100010111101111110111110101001 110000
111100101111111001011111001100111111101011000001100110010 00010
100000000010000011110010101110011110001001111110010011 11110011
100100101011001010101011110000100011000000110001001000001111011
111111010001111111100110111000101111100010111100001011110 00111 11
101001101010111101010111110101011100110111111101111110100 011
111110110100100011100000111110000110011011000011111000111 1010
101100111101010111100110110011101111110011101111110011101 11111 011
11010110000010011001010100100100101111001010011011110011111001 11
101011000101000000011000010111101100011001101111010011110001
110110010100110100010110000001001011011101110101011110010000001 1

111111100110110101011110101010010110101110110001110111011111010
110100011110110000111011011110010101101111010010111111110010
101100010101011100000110011001111011100111111010000110010110000
111111000111000000010100001110001101110010001111111100101000001
111110011011001111011101110110100001110111101111000100110011010
111110111101111100100111111100110111000011111111111011111100010011
101011000001010001111011110111000011111110000111010011001011110
101001100100011010111100000100111110100100010100111001011101000
111100000110111100001111110100000001110000110011011110110100
111000110010101010010011100010110110101110010111010100101000000011
100001100010011110100000101010110011001000111001110110100111001
111111101101101110100100011101000110011110011111010001100110100
101010000001100010001111110011111001110110110111110001010111110001
110001110101110100101110000010001101001101100110000111110010010
100100111111110111000101100000111111011100011111100100011001
100001011101110010000011101001011010001000011101000110011000
110001010000001111111000110011001001001001100100101100010011010
100010110000001100101011011110010110000100101010100001110100
111101101011000111010010001001011001011011010010111110000000111
111100010011011111001111001110011000110000101011111010001001101
110110001000111000000001010110110001010110000111101110111101
100111001011010111111010100011000001110110100001111110000011
101000110000010110001101001100111101000111110001101111101100100
101000101010111011100101110000011110000001000110010010100011
100110101110010101111100101000010111100010111111011011100010010
101100111110000111000010011011010001100111110010111110100
100000111101101011011001110100000011110100011100111011111111
100100111110001111110000000111000001001011000000101101011110001
110011011111111010001110101011111100011011101000000010100110
100100110101000000110110011011110101110001111111000101000000111
110100111110110101000100111100101110011011001011101101001001000
101101100000111011100010000111010111111100111111010000011001
111100101011100011011000000110011011110110011101110011000001
111110110011111111010111001111000101100010000001110000101101101
110110111101010111100111011001011000001101101001110000011100
111001111001101011001011110000001100010111011000110110111000
100001101001010111100000101101111011000101100011000100011111000
100110000100010010110110011010101100110111111000000111011010001
111100001111110010000101101111111111000111111011011000000101101
100110011100100011100011011000110101100000011001010011001000001
110011100001110011000110001011011110100000000100110001011101011
110010000111111010010111100000011111011111100000000100101111010110
110001011100000010110011011001101111110100011000000011100111000
100000111110110111010011000101000111010000110110101110000111111
110101000101000010100111101101011001100100100111011001011001011
100001010110011000101000010111101100100011000000100011111111100
100001000010111110100011111100111111010111110101111101010100001
111100111111000000001100000011010110010011011100000100111101000
110111110101110110010000011101010011001000010100111000000001111

110100111110011111010100111011010010010010001001010010001101 10
110011110010001011010010100111111010001011110010001101111011000
10111000011111100011111011000000110011001111011010100000010100
101100100111101111000111010111000111111010100110110101110011100
100001010000111111000010110111111001101010110001011011110100011
101111000010100000110110011000010011100000011110101011100011
100010010110010011011111010100111100111101100010000111010110 11
101000011100010110100010001100110001011100000101101101001 1011110
11000001011101101000110110100010111010000110001011001 1110
110011100000111000101001111000101110001010101011110001000 1101111
11111011101010111011011001001101110110001111101110001111 0100000
1000010101011111100111111010110001101101111011100110100000 11
111010101111110101000001100100000111010111110100001110011010 1011
110001010100111000010100111100101101000000100011000100111 0011
111000100111110001001110010111110111111010101110000110011010 1010
110001000000001010101100001110111111110010011001110100000111 0
111110010000001000001101001001010000011010100110100101000010001
111000110011011011011101100101111001110000101100011011000001000
110010000011000000101101100001011111011110000100100111000101011
101101101001100110100001001101101000000111001000101101101010
101101011000111000011101111011010111000100010110110011001 1111
110000101011000101101111100010110100001010111010111001011 10101
110010111111010000101111100011100111101101111100001010110 11001
101111111000101110011101001001101101100011100011111000100110
111001010000111110011111100010011001110000010110101011101111100
111111010001111100001010001111100011110111010100101001 01101
101111001111011011000110001011110011110010110110100010011 11111
101011100110011011110001010010001000101101011010111010111100111
101000111011110010001101110111100010111110010111000110001011100
110010111100011011111100101010111101111001010110100000010 10111101
110010110000000000011001101110111101011000000001101101000 011100
101100110010101001100010011001111101100110011110111010010 0000001
111110001111110111001010100010001011010111101111100100101 00101
101110000010100011011101000101011010000111111010001010101 101
111100100100101101000010010011011000111100111000011110010110 010
101110110010100011001000110101100100110111000000101011110000100
101011001110000000010110100001011001001011000110011010111 0100
110011110101111000010110011011110100110011110001011011 10000
111101010100011001011111011000100100000000010110101001000110001
111011100000111011001100110101000001010111001110101111 1010000
101011110110010011100111100000100110110001010010100110011 00101
101110100101101000011100011001111011011101110111001010110 0000000
111111011000010011110000101111011111000111100000101111101010111
100111101000011100100111110011100110011111100100111101101100
111110000010110110101000111011000100101101011011000100 11111011
101110110101001010011011001100110111101010100111111100011 1101000
111110111001101011101001011101111010000011101101000001100000 0110
100111101110011010110110101001111101000001110110001010 10111111100
111001000011111101100101000100100101111011011110000011010 1010001

111011001011111011111110111010100101100100111001110000101001
100000101011111010000011111011001000010111100001001111010001 11
110010010001011001000001011010000111011010000101101101 10110010
110010101101100111011111000011101010110000011101011111110100111
101101011110100000110000001111010010101011001010101011101110
100101101111111110010000111101111011011000010110100010110100110
110100001101011011010000111011101100000001111101100110100011 11
100000111110010110011100000111011100100010001111110010001 1
111111000011111101110000111101100111110010101111110000100110 1
110010111110010111100101110011101101010110001111100001111110 10
110010011000010100010110101011110100000001110100001011011011 01
111001000000011000011110011010101111101110100000100110010001 1101
101101001111111010110100011011001100110000001110100100010101 0111
111111010100111000000011101000111011111011001110100010110101
100100011110001001110100011101101101111101011101011011010001011
110111011001011010011101010011011101001001000011110011 1
101000110000010101100100111111010011111010011100110110011011 0101
110001000000010011100101101011011000010000110111010001010011
100100101110011101011001100101001100110110100011011100000001100
111100010010110111000001011000000011100110011010010001101 01000
100110010111001110100011101111101011001011110111000011100011000
100000010011011001100110010000110010100110110011011010111 101011
110000011011000101001010110000001010111011000001011111001001 00
100101000000010000110101011000111010001111110001110001101000011
100110000010001001001000001001101010111111011011010100 10
110110011011110111001000110101110100100011010011001010000111 110
110110010001010101101110000000100000000001000100000000100000 1001
100001000101011110110100110111100111010011101101110011011010
111010010010011101101111101000010010010011000111101111111011 0011
100011010111010101010101111000010010011000111110110100010000 10
100011101100011100100011100101110011100100000000011010101111 0111
101111101011011000000010010011111101111101011111111101001110101
111000000010100011001011000111110000001011010011001001110111 1101
111100011110010011101100011100110111011001111001100111101110011
110000011000001111100110111100101011011101101001110110110 1111
100000100110000111100110111011101100110000110111100100101001 11
101101000001101001010010000010000001101101100010101100110010 11
100000000101011010001000010110000000010000000100010110111100
100010001101000010001111010010100110100110010010000000001001 0010
100110011101100000011010101011111100001100001110000000010110
101001010111011101010111010001100101110000000110011110010011
110010001100000010000001111000101110001010001000100010000000110
101111100101010000010100000101001001010111000001010101100 1100001
100010010101001110001000000011011011110111000011111000001 1111
111101101000100110110010010100110000011000101101100001000111
110110011110110011110110011101011111010011111011000101001001 1101
111000011000000111000000110101110011100010000110110100101100
100111110000110001111010000000100001101001110011100001100001 11110
101101100000001101010100000001000011001000110001110110000010

101100000001110110101101011100011111010101010100001110011111
111110000111111011111100011110000111001000000010111111101000110
111101000011111001010010000111001001001010100000011110110010100
100011000100100010100010001010110110111101011110000110000010111
111000100100101001011010000100001000000011010100110111010011100
100010100001010000001010011110001001010001101101000011001011110
111000011011010000101000010100111001000010010100100101000100110 1
100001100011100010001010001100110110011100001011101000101000100
101001100111011110001001011000111000101100000110101101000010
100011001100100011101001010001101110000000010001110001111001101
110001110010111010010111010010111010011100011001110011001101001
110000110000001101000000101001010001011010000000101001100010100
110011100001111101110101000110010010011001000100011010001010110 1
111010101100100100011010000111110000101000001001010111100110 0
101011011001000111010010111010000110100000111010011010011
111101111100111011010100111000000110110010010001011111000001111
100000010100100100100111000010101100000010011001100011110111 01
110001001101101100110100000010010100110110001001010010011001000
101001110011100000111110100000111011001111110011111011011011 01
110010100011001111110110000100011101100110011111110100001110110
101011001101000001000100010001100110111100001011000100101111
100000011100010100001110100011101000111100010100111000101011 1
100100000010100001101000011011001100101001100101010101110001010 00
110010110110110010110010011001110110111101100000011101111011101
111010110110000011001011000111101000010110100011001010000100100 0
111000011110100001100100011110101100100010100111000111110 11
100011100110111100001111100111101110100101011110010011101001 11
100000001101000001101111101101111010101011101001111001100100011
110010010101100110110000001011101111100010101110100001100010011
101100000001011001011101001100010000000101100111001110010111 101 1
111000011110000001011101000010010001100101010110000000110011
101110111111101001011000001100111101000100101101110000001010 0
110111011111011100111010100001010011011000100011000110001110111
100110011011101011110101110011100101001100111100101111010011010
110001110011011101000110001111101001011100000010000011110010 0
101101001000010001110101100111101101111100000001100000110100 00
101100100111001010001001110001010110101000101101010111100011010
110011011110101010001101101000011010001001111001000011110000
100000011100000111111110000100001100000000001000000110100010101
101010010011001001011011100100000010101001001110000100011100
100011010100111110001001110010011111111010111101100100000000101
101001000001101111010011100011100001100111101111111000001100100
111011000101111110001000011000100101001011010000001011100100011 0
100111100011110011110101111110001100111011001001001100100000110
111110000000101000111001001101100100001111101011100111100010
111101100101110100001111100000001100000000111101000101101101
111011000011111101101010111011000010010011000001011110111010110
111111111010010000001000000101001010011011001101011110111001011
101111101101100100001011010010110100011000100100111111100000

111111101100010111011100101100101100011111111100111010111100111
110011100011000110100110001110001110000011101100110011110000
101111100101110100101111100111100010011010000010100000011001
110000001011110101111101111100101100101011110011101101001011
110001100011001010100010011100010011100010011101010010100010100
100011001010100000100111011011100001101100101111000010101001
100101111101110110011001110111111100011110011101001011111010101110
110100001101101010001001100000101010111100001001101010100100
101100000110100111111011110111011011011101100010001101000111001
110101110010100111010000101000110101111101101011100100000100000
110000111001011001001110000010100011000000110110100000001110000
110111011101000111111100000001110010100111011001111001110101101010
101111000101001100111101000101111010100110110100000111001111101
101011100111111010000101110001001001010101111010101111100111001
101110011011010000111000001111101101011101011110111101101011100101
101100100100111000111000011101101001010100011100101101111101110
111100110110011110011101011011110001011011011010101000101101010
110011001100111101010001100010101101000010010010001001101
110000011100101110010110010110001011010011011100011100000001001
110111101100011100100101110001010001100111111011000101001011011001
101011110111000011111110000111110110100100011110001000010101000
100001011001000010110000100001110010010001111111100001000110000
100000001011100111000111110100011000111100000011110101101101101100
111100101100111011101110000001011010100010100110110110000011000
111110000011100001110110000011100111100001011110100001100
111001000100100111011001111010011101000101011101011001000100010111
100101110100001011011010101111011111010001110110100111101101011
100100111111111000010100110011100000011000111011100110011110101
111101100010001101001100111100101100111000111010000110100010100
110100101101101000100101110000011001001100101101010101011000101
110111000001001110110111101000110001000111110000101111000011010
101011000001110101110101011110110001010111001000010110110000
110010110010111011101101111001011010000110111111011011011011111001
110000010111100111010111101110100111101000010000011001001001101
101110100111000011101100000111000100001000011111011110110101010
101011000111100001100110100011101001001100100101100000101000110
100100010111101000011100111011111111010010011011011011001001000
101111110111100111100001010110110010110111100010101100000100111
111010001101001000001000011100100110101110011110111010111010111
101111011100101000110000101111000010100110011110110011100000001
111101101001101111011001011111110110110001100011011001111010111
111100010110000000101001000101101100000111001111011010000111101
111100001111101000111011010100001011011001011000001110001010111
101101110011100101111111100101010101111010101111100001011000
101111000101101101010110011111010011110100001110000010110000011
101011101111101110110000010111011111110001110110100101111010111
100100000011111111000111110000001100010110011000011100001011001
100011110101101101001110110101101101100011011000001100001100100
100000100101101101001110011110000011100001010001111110011000110

111100110110000011100000011111111011010100111011000101111000
111011010111011010111100010011011001001101110100011010111011
110100001010110011111110111010000011010001100110000001101011
110110011101111111011011111111110111111010011010001001101100
100000001010000011101010001111111110001101111111001001111111110
111011110110000010000011001001110011010000111111101000000101100
111110011010001101000001101011110100110110100110011111100111001
111000011001001000111110110011010011111101101011110110110111
101001111111111110000111011000110110011111001101100100010101101000
101010110000011011100101001001101100010010111111111101010111111
100000011111001101001001011111110010110100001011110011011111100
111101000110010001111010011001101111000001011010001010011100001
111110110001001110001000010101011000100101010101011011011100111011100
100110110001101111111110011011111100010111111101100101010010010011
110100001001011100010101000010000100100100010110110001010000111
110000010110010100000010000011000000111001111101000100111110100
111111101100111001111100100100001111010011111000010110000001001
111111001011110100011111100110111100011111110000011111110001011
111110111000101101001100101011001111111011001101100111011110110011101
100010111010001000011001000100001110000110001110100111111110100
110001111011011001100100111110110010110110100010111111101101101
111110100110000101000001010111010110010000111010001001111100010
111000111101110001011111011010110011111110111010010010011000
101100000011110010011100000110101011001010111101111001100111100
1001111100100100010011110001001101001001001011010101000110001001
110000100011000100101000111010000001101110001000110101010110011
101100111000010000011001011110100100001100100011100111101011011
111100000110010000111111001110100010100110000111100001010110101
1111001010101110110010111101101100010011110110100011010000110000
110100000101000110000000110010111101110010110000000110101001011
110001100110110111110100110101011011001100110011001110110001110
101100110011111011001100100010001010011110110100010110010001100
1110100011111111000001101111010001011110100001111101011100001
11100101001001000000011101100011111011100110011001000101101100
100100000111101000111011100000011111000010101101000100001101001
101011011111101011011110100001111100110110000010111111100100011
111001110011001110000101101100001010010011110011111101001011100
100001101100110110011110010000110011100011111111000001000011101
101000011001010100000111101100001101000010011100101100001101101001
111110100010100011110001101100110110010001101110111000101110010
101011010101011011101000100011000001100111001001011111110101
111001110010100000001110010111001010110100110110001110110100001
111010001000000011101111110000111111010011100110010001001100000000
100101110000011110000010110101101100001110110110011001000110010
111011001011010001011110001011110100110101011100101100011110
100011111011101011011011011101100011011110111110000011111010001
100001101101010111001001100100010111010001111111101001011011111
1010010011001010100000011110000111111100001111111111100111100101
11110101010001011100100010010010011000100011101101101100010110010

111001110111110011111001110101011111101101100101110110100111011
110000000000100011011011010010110101111011001101111100101001011
100111000001110111000010110011110100011000010110001011000010111
111010101011100000111001000100000111010111100110001011111111100
110110000001100011001111011001111101001011111110001011100001011
101000011011110001001101011101011010111000101110111101100000
111101101100011111000010001010100010100000111000010100010111100
101101011110111010110011111010011010111001010101100010100
101000101111000100011111001011011011010011110111111110010100100
110011101011000111110101001101110100011001010111000110101000
111111111100010011010111011011000000100110000011010111110000111
111011000111101101110011111110001001100110001001001110010011111
111001111111011111100110101011011000100010001100101111001111110
111111000001111000000010011001001011111111110011001010110011011
110111100111001100111101010001100010101001100110001111111010000
11101100111101111001011001101111111110011000101000100010110
111111011000001001001000111011101000000110011000100101011110001
110110000110110100001110011000100110101111101000111111110010110
111000001011110000100101101001100000100111110110011100111010000
110011100111000011101111011010010100001100100101011100101011100
10001101101101011011011100011010110100001000011100010101110011
10011010111111000110000010000010011000011101000011111100111100
110100111111100101101011111101100100111100001011001110011111
111011110110011100111000110100000111100101111110110111010000
111101100011111111110100111011011011001101101101001101111011010
10110010111011000110111100101011111000000110110000110010010001
11000101110111100011001110100011100110100001101001100100010111
100100110001101010110001100100001101101011101101111000010111
101101000101111101000101111100001100111101001011011011101000011
101110010011011110010010010011110010110101100011010110001001 0
100110110010010111111011001100000011010110010001101001101100 11
100110111001100100011111011100011111000000111101000111101111010
101100010011000011011001100001101111100011001101111100 0
101101101110101000111001010110011111100010101110000100111010 0
111010001101011101100101010011000100111011000000111010010110 11
101110010110010100111100011110110011111100111010010110011000011
100010011010001000111110001001100011011001100111100001011010
111001100010000101101110010101110000000011011111100000011011011
111100100010100011001100001110000011001100100010101010110000000 1
111000001101111010010101110111100000101110100001011100000010000
111001110000111000000100011011000000111011010010001111101101100
110010000000011110000000011001000100101101100001111111111000
101000101100010100110111100000110111011110011101000110001 0
100011001001110010101110111111111011000000000110110110111111100
111101100101111111001011100100011111011101111011100011100001101
101110100111111001000010000011010000111010101111011110010000000
100010111100101110100011110111101010101000001101000011001110110 1
100000110000001011110100000011100100000111011010110100001000110
111101011011010111001110110100010110100111110000110111010000011

111111000110011010001110001110001000111011111001001111110100001
111011010111000011111111110110011101101010001110010110100101 0
110100010111100001000011011000101101101001100101101001010111 1
11110011111110011100010000110001001101011100011111011001111 1110
100101011011110111011111001101100010111000010111010001111100111
101010000000010101011010100001010110011110000011011010001100 0
110001101000111001000110100000111000101010011010000011110011000
11111100001111000001000110000010111000011001100000100011011
1011110110010110011111101000011100101111010001110111111110010111
1000001100110010001001100010010110110101110111110001110110001
1110000100110101101101010011111110001111110000001100111010011 00
110110010110100001100101101100110110110110101000001100100000101
1110000110101111101010111111100001110101100010010100111000000 1
100111000001010001100000111010111110111000100011111100011100111
1100100010111110110111010110110110111111101100011011111111100001
110110010010111011110111011100001100010100111101111001001110 0
1111111100101100111011011101100101101111010011111010111111100
101111011010111011111010111101110110111101000101100101111101100
1001110010101100011110010011101010111001011110111101100000001000
1000110001110001111100011111000000101100000101101011110100100
1110100101011001001001011100111011111100111110111110011110011 1
1110011100101100001111100101100100011101000001001001101010110 11
1111010001111100001101101000011000111011011000100011011100100 00
11111010011011000001100111010000101000111010100001001110100
10101100011111010101110111101110010001101000111001101000001111 0
11110111001111110110011110101001110110110110111110111010101111 0
100011001110010000001010100000010011001110111101000011100111100
11001011011011011111101101111011101100000010011010101111010000 00
1000110000110000011000100000111110000101101001101101100 0011
101110000000100101011000011001100011000110000011001100001000 10
11001010001110101100110010110000110000110011100000101111110001
1000001010111011001100101101000110000011010011000111100001000 11
1011100101011100100101000110011000100000000111100111000011000001
110000100010100100001111101001110101100110100011001101011001001 0
1000010010111100001100110111111010000000000101101100100100001
1101000001110101001010011000101001100110111110000100001011000
100111000110010011101001101100011000110001111101110000010100111 0
101001000000001001111100010011011111001000110000101100000000011
10111110111011101101001011010111000010110100011000010001000 0
10011000101001011101000010100001010010101101111000010100001 0
100001100000001010000101001110111011000010111000101001110010111
100111110110010101101111100110000001111110111100111100001100001 1
1111010010111110001101000000100100000011101011000000010100100100
1100001001010110001110110000001110011011011000111111111111001
111101111111011101111100110111100101110110101110011011110111 1
100011101001101000010100110111011111101111000010111111111111
1000100011001101100011000110111010011101111010010100001111011001
101111011001111111011100110000101000110010110001010010100000 11111
1000110011101011000101110100001000001111100010101001100001101111

100001100010100001111010000101011010011001101110100111101110 1101
110000100010110101110010000011000010110010010100011101111000 0000
101110011110011011001101101111110101100010010010010111101000 1010
111110110101001100101000011111001001100101000010111100010111 1000
100010110100101000011100010101000010000000000111001011111010 0001
10100010100110010011110010011100010011100111011010010101010 1
110000100011010100010110110110110001100010001110001111110110 0101
110001000001001110011110101001101000011100110000011000110110 100
110011000010110000001010101111011101011001110111100000001001 11
100011011000111001001111101100110101100000101110101110000111 0110
100010111100011000001011110100011010111000100000110001111110 1
101000010010110000100101000101010100110001100011101111000000 0110
101100101010001010000000101001111100110001100001011111000011 011
100110101101010010001110101111000001110100010100001100001110 0110
100110011001000110001011101100010100110100000000011110110100 1111
101011110001010010111001001001101100111110000100110100111010 1001
100111101100000100001000000011000110001100000110001110011100 0110
110101000010010011000010000111011001001101111110101010000000 0
111111110001001000000100110000100011010110110011001010001001 1100
100011000100101001110001000000101110101110011111101110101111 1101
101000001001100100101001101110000001110010100110011010111001 1110
110011100011101001000110101110101110100011011101010111110101 1110
101010001110111111100010101011000111101010101001111101001111 10
101011110100110110101011001100100010111000000011100101000110 011
101001100100111100100101011001110101001101101111101011101001 001
100000001110100111011111000011011001101000011110001111100000 01
100001011001001010001100101101011001001001101011011001001101 1111
100111101000101010100101101111001000111011110110110101100010 0110
111000000011100100101101101101011100111101001101100110001000 000
100010001101101001010000110001101111000101010100000010001010 10
110110011111101101000110010100011001110000111110000011111101 1
100011000010111100010001001100100110110100011001001011000010 10
110111110010100001011101001011101001011111011010011100011111 111
100000000010100010011110100010111000000000010001110001010111 011
111000110001001000011101011001111110001100000011011000000001 1101
101000011110001001010111011110110010001001100111010010111010 001
111010011011110001111100000110111101100111110011011001110011 01
101100110001111001001101111010001011011100111011000110111011 00
100011010111111011010001111100000110111011010011011111011100 1
100001111101001000110101111100100000001000111001101101101001 111
110000010111011111001100110100010010011110010000001001110000 110
110001100011100100100011110010101011110100010101000011000101 11
101100010100010000011100101110100011101001100010000110001011 110
110000111110001101011111000000011100110010110001011101000100 01
111111000010111110001000111010000100001011001010110010110011 100
100001011100111101100010110100011101000001010110000111110100 011
111000100001010100010110101111011001000111000110100101011001 11
110100001101011001001111111111010011010001011001001101100011 111
100111010000011100011101101010001011000010100010111100000100 1011

101101001011001001010111000101110000100011111001010011001001 01
10010000001000110011001000110010001101011011111011101111101 01011
10000000100010010011111100000010001111100100011111000 00001
1010000101101100111100111000000011001001000111011001001010 0011
1111011111011001000111010001110000010011101001101111101001 1001
10000101011011000001100110111110110100011100001011000001110 00111
10110000011111101110011010001100101010100111110100000100011 00010
1011011010001000110011000100011001100110011000111000111 11000
100111010110110001101110000110011101000010011101000101110 1000010
1011100010010101110110010010001111001000110011101100010111 100010
111001110011000010101100101110111101001001001011001111101 0001
11111100000000111100001110001000010101001000001110011011110 0111
11010111001000010101100100011011000001111110000001100010011 10000
11011100000110010111101010100000110100001101100000110011001 1100
11111000001110011110010100100000010110111110101001001010001 101
11000011110100010111100001100111110001110111110100100101101 0001
100111000000000110011001100000011011001110100110110001011 0101
111001001111011000000001101111100100010101110100111101100 010
1111000101001110000010101011000001000110100011010110100000 11001
1010111001100001000000100111101010100101111101000111001110 01011
1110011000111011000001111110100111010111001000110011011010 101
10010111011110001000111101000111010011001001011011111010
100110111111010101101101000100100100000111010100011100011010 101
10110000000001101100100111000001110010011000101001100111000 0000
11111010001110010110010111000000011101110111000001111001101 00011
11100000111010001101110000011001100001110010110110001011010 0001
11111000101000000111000011111010001010011110110001100011011 10100
11111010001000110110110011011110000001101000010111101100110 0110
10100011000010101110111100010100010101110110011100110100000 10
10111010110011001101010100110011001110110000010001011111 01
11001101011001000010111111010001110100000110111000001111111 0
10001100011100101100000111000001001101101111000110101000001 110
10000111011111001010000110110010110111101100100101010111010 00
11101100000011101011100010110110001100000111111010000111111 1
11111000000111111101000001110000110110100010110000101101000 11110
111001100100010101011010000100000010001011110100010111000000 0
10110100111011110110011001110111001001101100101100101101100 10010
10010111011010100111110100111101010001010001101101001011001 10111
110000001110011011001110000110111101010110110100010011111 10
10111010001110111110100100110010001101111101001000010111110 00
10000101110000001000111011101001001001100100101100110101100 0001
11100011000001101100110110100001110000011111111100010110000 00110
11000101111101010111010011001111101110010011110100011111011 1001
10100000010101010111010010111010011111111111111110000011 011
10110111100011010101000001001111000000010111010000110010011 01
10001111110010101011001101000110010000000010100111110100001 11000
11101101111101001010011001000111000011100001001110011100 000
11101110110000011010110100001111101110000110000000000110 100
11100011001111100111011001110011011011101011100001110111100 1111

111100110111100011001110100010011100010100010011100010011100010
110111110010111000100101100111010000011011010001100111000111
111001110001011101000000111101000101101111010001101110011110100
111010101100110110101101111100011011010000001101111001100100
110110100111101110100010011010111100101110111001111000001001111
110100001001110000100110000001010111000111010111001110011001110001
111111001111000111110010111100000011011010000001111100100100101101
10010111101110001011001001100110011000001111000011110111111010
110011110111100110010001011011010110000110010000011100001111
111110101011101111100010110110101010101011001100110001111011001110
110111011111101111100100110110010000110110110001000011011010011
101001101100010000111110011001110100001100010011011110111101101
101000001000001001011000010010010110111011000101001100110111000
11111110011011111010110111100010011111100010000001110000001001100
1010101100000110110101011111010100111111111101011111001101101110100
111101000010111010000110110111100010001101000110101111010
11001000011110001010100010101011011110000110110100111001110101111
110110011001111000101111000011111100111010001001000010001000000
110111000110010101111010110000111111111111101111111000111111111110
11100000100000111110011011010010100110110100001010010111111011
10111110010001010011101001011010110000000001110000100001101000001
100001101101101111000001110000000100111010001100110111011010111
101101000011110101111100110011111100011011111010011101110110111111
11011101110010001100111101001001011000010000100101101000011101
101010110001000010011110111000101101111010101111100100001001
101111111001010111111100011111000011100101111001001101001000000
1011111100011010011011000001110101100110011111101111111110101
1000000111010101011000110010010110011111100000111011111111011
1011011101111100000111110001111111010000010111010001110110100
110001001101011100010010100101011110001111111110001101000110
111011001100001010011001101101101111110100110100110000000101000
10111000000111101110100111110000011111100100111101101000111111
1010011001110111011011100100101011000010110110011011010110
1001110110000111111101000110111001000100101101110010000110101
11001001010100110110011001110010101011110011011010111101100110
111110100110001111110110011001110000010111010000010110000001111
100100101111011010101101100010011011110110011110000001010000
111101111001100101100011100100111101100011011110111111011001100
1000011010110001011000011101000100111000010110001101100010001101
1011001010000100100101100111111111001111111100100001001100110110
101000101100010100111101000011011100011001001001010101000010
110001101111010010011110111011011110010011101111001101011111
111110010101101101100011111110101011110000000101100000010000100
10110110011101001001001100110011010111110000110110
1010100111000011111101111011101111101101011010001011010001101010
1000111110100010110101111110000111010111010111110000101101010000110
101101101000110011111011001011000110110001011001100100101111111
111100010000011011101011100111111101011011100011100101111101
110100100100111000110000110110110000110100010001010000010111011

111111000100011000010110111001110100101111010010001001101100010
111100000100010111001100101000000110110111110101001101000000
100100111001111011000110001101000001010010001110010001011011101
1000111010000001110101101111010001111100101011000010010010010
101100101000101001111101001010001101100001011110110001101001100
101000001001010110011110111001001110100011011101110011100111110
101011001001000111011101000001101110100010111110100110001110
100100000100110011001100111011011010101100110111101010001100010
100100111100100101011101111110001100110001110110011001010100110
110011001000010001101100110011011010001100010010101100100110111
10110011001001101111000101011011101010100011111100001110011011
11000101101011011000101111101101001001111000010011011011010
101000001010101010101100010001011000000111111110110011011001
100011010001010011100010101110100000011101100111110001111000000
111001010100000001011011010010110110001110110100010010011111000
100010011000011111011111000111111011110000000001111011111
101000011011100100111111011101111101110110001010110100000100111
100110010001110110011111010100110100110001011001100001011000101
110100101011000111000010110111010001011000111010100101110001011
101011001010000111101011100000011111010001101100101100110011110
111010010001011001001011110101110110010110111111101000010101010
111110010111110100111111001110010111000001011110110110101101000
101010010110011011001100111111111100000001001111000101001000
111000000111100010011001101100101111011001001010011100010011001
100010111101111011011011110000001011111110001101011101000111110
111011110000100110110001011010100010010011110101110100011
101111110010011011100100100110000010100100100111000101000011111
110110010011000000101000100001011000000111011000001111100101101
101010010001010110011000000000111001001011000111011111111101011
101111110001100100011111100100011101000011011010110110110111110
110101001101000100111000001101101100100110111000001100011010001
100111100000011110000011001100000101101110100011111101011011111
101010010001010101110001101100000110011011100111001110001101001
101101001100110010000011100101111111011011001100110100011110000
100011011001011001100101011010000101111110001000000111100010
101011110110100011100101110001000011110101100110101111100011
110110110001001110110001110011110110100110010111001010110111
111000001001111010001101110000101110001000010010000101101000101
100011100101011110100010000001100010110001101000101100111110011
111010110001001101111011101100011110001010110000011111000010
1000101111101011110011110001001101000101100010010101100111110010
111011110001011000001100000101100101011010110110100010010101101
101111001100010110100001111111011101000101101111011000111011001
1000110000011100111100011011010001010111011000000111000110101
100111101101100101100111100101100111100101111000110010010001110
10000010111100010001011110001001001111000000110000001110100101
110111011100011100011000110000011010110111011001011010001010
11010110111100000100101111001011110010010011100010001100011010
1010110010111110100011101100101111100000011011011100100001110

101101000100010101010100100101100010110111000000011100010001100
111101111000011001001011110111001100001101100011010110001101111
111111010011100111101110101110010001100000101000101101101100010
100101111001010010110011111111001100001011011000110111110101010
110010101010110000110111100011101100001010101111000010101011111
101110101110001111100110111010001101110000111111111000011011101
110110100010111110101010100111100000010111100010000011000000011
101100110011111010111001100101101000010100111010011111111100001
101001000001001011001100111001110011111101110001111100001011111101
111001001100100110001011111111000000111110001110111110110100011
110101111001010111100101011110100110000001000001110001001001110
101001110110100001011111000110101011001000111011011100001011011
110111110111011000101001010001001100010000110111111011111101001
101001110100111110100111010100111001101110101011110110101111000
111110000011101011000111000100111101010100001101100111110101000
100111010101001110000010011000001111101101000000101111100101011
111011011111010111100111001001111101001011101110000010110111000
111000000100001111100011010111000111110001110111000111111011111
110001111111001001101101100011111111000001101101110011000101001
101100001000011010100111100001000011100000111101110010111101000
111101101010111111100100001001001000010111111011000011001111001
110011000011111010111111101000000010111010010110111101111100100000
100111001111100111100110001100001011010010000011001100111001111001
101001100000111111011100111111101010011111010010011111011010101001
100110011001101100010111010011111001101100001100101111000101011
111101110111001110110111111010000101101000101101100010000110001
100101100110101001001111001010111110100001011100000000111010111
111010110110111000010110100110000000010011010001100100111000010
100010110111111100001110011111111010011111011100111001111010111101
111011101101111100011111000000110111000001000101100010011010111
110000110111110100001011100010001010001110010101111000010110011
110001111000011111001101001100110000101001100100110011010111
111010101110100110100101100111110010111000000111011010101110111101
111001111111110110011111111101011111011011011011110110101011111111
101110011111100001010011001001100100011100100011111111001111001
101000000001001101000011011100101111011001011001010101000
111010010110011001000100000110111101111000011111000011111001001
110010100011000011110101011010101001111100001001101011100001101
101100011111110001111110001111101110011010011011001101000101010
100010110010110100111000000110110011010000111000110010000000001
111001110110011001101111101110101110110101100110100101001
100110000100100000111010110101001101101101101111101011100000000
110011011000000111101011110010001100101111011100001010010001101
101110110111101100010110010011001110111010011110010011111101001
100011110011011001101010110000100001100100000101001110111011011010
100000000100101100100011000001111101001111110001010101100101010100
101110001100111100100000111101101000101000000001010001000011100
110000001100101101010000010111101000101010000111001110011101101
110000100010001010010101001011001000000111110000111111001100111001

10111110100101111001010111100000101011111011010001100101000111
1000111110010011110011011010000111001001101100011110011011000
10111110010111001101100010011111111011001101011001100100111111
11001000111110110111100101000011100011011100110011001001011110
10111001101010010010011100011111100011101100011110011011010001
11011011110110011101101111110110111111011011111001101101111
10111001101101000111111001100111000011111110011011010010111101
11011010010001001011001100111011001110110001100110001010011 0
110110010101110011010011111110110011010100010010110010001110110
1110000100101001110111010110101100110100101100110110010010101110
11111101010000100110110111001000011001100000110100011001101111 01
10011011011001110101000101100010011001110001010111001110110
1001101101100011001010010110101010011000011100000001011100
10100101111010001101011110110100110110000111000000100101101 11
11100011100011000011011011101100011100100011010000011100001 0
10001001001010110001101011000110111001011011101010110111100001 00
100010000010111101100110010001001001001101010001001000010100 00
10100110100001101100101001001111110110010011000000100101110111
11111001100001011111010011110001010010110011001110111111100000 111
1111111011000000100000101011110111011111010000001011010001100 0
1011111001100100111000110111000110001111111011110010111000001 0
1101000101000110000110111001101111000110011110110100000010010 1
110010001010001001011101000001101101010111111010111101010111
10010011000011001100110101010000010001011001101011011110011011 0
1010100010110011010010110001000110001100010001100110110001100
10111100001101111100110110000100101100110100000100001110000 111
1000001101000100011011110110100010111110100101010010000001101
100010001100000111011111100000110100011101001101110101001100
100001010011011101001100011011010111010101100011100101101000010
10111000011000011111110000110011100110010111110000011000111
111001100111001101100000111111000000001100011101111110101000111
101100110010011110010011110111000011000110001100101111110010 1
110100000010000110110000101000001011101000100111010000100100001
1100110000011100000111010101100111000111111000010110011110000 00
11001101111001001010100100011010000110010011010000101010110001
10100000011111000101011111101001100110011101100100100010010110
1111010001110011100011001111100110101011100010001100110010100 0
1001100110110101000110110100110010011001010000111100000101101 11
110000111100000010100110011001010001111110000011111001101101010 0
1000001001110101001100111011011010100101010101101111110000110110 01
11000001110010101100001100110100001011010001101011011010000101 11
11001000100111011110100000110001010010100000100000110111010000 01
1100111111100000011100010100011010101001100110010101101111111011
101010101111001000110110111110010011000011010001100110 1010 100
101010000111010011011111100001001100011110110011101101110110111 0
10000010010110110111000000100001110100010110110100110111000101 0
1010111111001011110100101111010000010000101000000110001000110010
10100101111011110111010010000111000100000010010111000110001 01
101111010111111111001101100111011101101010111110100011010101010 0

101110000011001111000101110001110100011011100111000010010101011
111101101111011100011100011111111011011001111001000011111100001
101001010100101110011001110011001110011011010110111011011111000
111100010111000000101010001001101010011000010001101000110000001
101101000111100100011001000010100101111110001000100001110000111
100000110000010011001110001100101110100011111101001011011111000
110000010110010001101111011101010101001001011000110010010110011
111110000101110010000101111101000100001000010100100111010100
110010011000010001100001000000110010111000110000100100111
111101111010110110011001001000111100011110010001010110000110101
101000001000000101111011010001101110101000011110011101110000
101000110110001110011000110001100010100010001100110101100110001
111101101001001000011010011101010111101011101101100111100111111
110000101110001101011011101100100010011000001101110111010101
111001001101011010101010000100000100101100110001100001001001001
111010001000110110100011010110110111100001010000111100100011111
111101000000110110110101011100000001010000010100011101000000
111001000011001111010101110100010100000011010011001111110000011
111111011001110011000110101111010101111100100000110011011000100
110101001011010010010010101111111011011110100110111010110111101
111110101001111100000011100000001101111100110111100111111111000
101011010000100011101001101101101001010110001001100111101111
101100010101100100111011000011001010111000001000111100011111101
101010111111011001000011100100101100101110000000010100111
100110011011011010001011001101101111000100100111111101001000111
101111000100000101110101100100111101110010010010000011111110001
100101001110001101100000111001000110011110111101000001011100001
100001001101110110100110011011111010010111001111011001011100100
100000011110100001110000010011110100001100011011000101011
111011010011101001100100011000001011111101010001110100101101
111011011111111110101011111100100011011100000111111111001000
100000101111001110101011000000101100001001001111111011011011111
101010110111100101101101010110001111100100100011101000101010001
111000101010011101100010001111010100100110110001100110011100010
111111001011011011101101000111101110100011100110001010010
111110101101100110110000011100000011100111001100110101110110100
100101111011110100101110100011111100000101100100001001101101
110011101100100000110110100100101000000011011010110110001001110
100100000001011001100000011111001100000110100011101001000110
101000110111100011111101000000111101011011110100110100000000
111110011010110001101100110011100011100001010010110000100111100
111101001111011110001011110110011110000011001101010010011110
110010100101110011011010000111001101110010001100100111110010011
110111110100100100110001001101010101011111101101111011001101101
110100110010110100101000111000111011010001001110001010101100100
110000001000001110100011010101000111001011100011110110010111
101000001000001010011011101111010010110000100111011110011100001
100011110010110010001111001111011010011001101100001011101010010
100001010011000001110011000110001010011100011011001001110000010

111101000110101111001000101000011111000011111111101111110000
100010010101001001011111011010001010100010010000100111111000100
101011011001011000011100001111000100101010101101100001101101011
110100010111101000110110011011000111111101010011100000001110101011
1110100000100100010010101100000110100001110000110010001110101011
111011111100000100110000010001101101100011010111101101010000001
110111011111110000110111110010010111010010010101101000000
110110101100111011011110100011101111010111110110010110100010
110010001110100001010001000101000001100100010100100111100100011
1001000100100111001000000000000001001100111101100100001110010
101001000101100111010000000010010001011110111001101000010010101010
1011100001010100111100000010011010000000100100001100101010011
11101000010001000100011001111011000110000111101100010100011110
1001110001111000010111000111001000101001011101001011011010101
10100110010111000100100001101101010100110110001010001111101010111
10110010110001110110010010001001111101101011110110011010001010111
110000001001110100101010100010110111100111111010100110110
100001100100110111100000011101000001000011001001000001100111
1111010001111110111110000011000010000111110100001110011111
1101101111100100010111101000010101100000101001101001111001000111
101010111001000001011000110100000011111111100011010111000101111101
111101000010100111001011110110111111001111101100100101011111000
1101111101000001101010101011110011010101000001001000001111110010
111111001000111111010111110000001101001001010100010000001010110
1001011011100000101101101000010000111010010110100001111000110
11100010100110110000101011101100000011110010001001110000100001011
11010101100000001100111110111011011111010101011011111000011011111
110110001001110010001101111101000110000010101000101110111001010
1010101100000110111110000111000110101100000110010101111000000111
11111100111001011111100011101111100011101101000011100111001111
10100011101101001001000001000101101001011101000011011001101010
1001110111101001111001111000110110100010100110101000110010101011
111100111011011100000010000110001010101101111111001111111110000
10111000010110001111101100000010101101010101101000010110110111
110001111010100111101010011100110110100001110001111011000000111
1001101101100100001100110010101001101111011001101000111100110111
1111101011111110001100011000100100101011011110110100100111100000
11000101111011100111001010111110011011110010111110000011111111
100000011000101001011010110011011100001101110100000011111101100
11011111010101111110010001110000110011000100010111011001010
111111000010011011100110110110110110010010101100100001011110
1100111111110111110011011010110111111100101011111011101111111111
100010011011101110011011100100111111101110110010110011000101110
100000010100001001001101101111010001101101110011110100001010111
110100010010001100011111000001001110100110011011011111101000011110
1001111111001101011111111100011100101100001011100100111110111011010
101000011011101000110001011110111001101001011001000110111111011
11110000010001011011000111010100110110010000011001001000101111000
1111101110010111011000100011100001010100010000000010011100110

110001001111100101100101101011100100000000011000110011100111111
101001100000010111110000010101101111110011111111110001101111
11110010010011111110100111100111100100111100100010010110010
10111100001011100110000001010111100010000001111111110000100100
11101011001011001001101110011100010111010101111101001100110001
1000001111111000111101100100100111000000110001001010010111001
11111100001110011110000101111000101111011100001011110000011
1110010001101011100111001110101101101110001110001101101001010
1111101110010000110110000001000100100110111000000000010000000
101000000100101100110001001110100111111111100011011001110110
1111001111111001100011011010010111100011101010000010100001011
10000101101001101101011000000000011001101100011100101000010
1110010001010100001111101101000010001100101100101111110001001011
1100110111101110011110110011110100110010001011000000000011010100
1010110011001111011011101110011100111100000100001001100110110
10011000110110110011110010001000001111110001011010001110000
11011001101011100001011011000011110000000010110100111011010
11111001001010110000101010111010010001101110110000101011001
1100000110011000001111100000010101110010000111110010101111110
1111000101000001000100010000000011000100000111111101101011
1101101100011101111011001110000101100111101110110100111010
1100100101101111111010000111100000000111100011001110000110111
110101111111001101011100011111010011011010100101101000101110100
111110000111001100100011000101100001011011010001100100111010
1011110111111111110101011000001110100010101111111001011101
1101000101011100010011111110001011011101111010111011111110
101011011010010001010100001011010101101100100111111101000101010
10110100110011000111000110001000000101101100101111001111001001
1011010010011110110001110010100000101101101001000000000110001
10110010110111111001010000110011110110010110011011000101000000
100110011000000100000011000100111111000011000110100000001011
100000111011000111111010000100011010111000001100011010000011
1001110000111111100110011010010010001000110010001101010101101
11110111100111010000111000111111011111110010111001110111001110
11011010101111111010101110000101101000111101000110111001111001
110001100101110001011001011111100110110101100010011011110000
1011110110011010001100010000001111100010110011111111001101110
100010010111010000111000111111110010100111010011011000001010010
110110001111101011111000110001110000000110011011000110111011001
100110000111100000010111011000101001100001010101111010000001100
1000001001110110000100001000110011001100110111110000110010110111
111111110100111111100100000001101000101011111000100110101110
1001110100110100111100010101100011101000011110001000011111011
10111011010010101101110100011000111010101011011000001101011110
11011101100011110110010101010010101010000100110011110101011111000
1001100110000010001011111101010010111010110001111001011011000
1110001111011101100111110000000111000001001010000000110000101111
101000000000010010101110101110010101000111110101101101011011000
111010000111100001010110111010011111100110110011101010100110011

10001010110001001101101111100000010000011000001010000101101100
11001100110010010111000101010110110001001011001000100110001010 11
10010010010110010010011111101110010010111011000101001111100010 0100
10011101000011010001100111000001011110000111110111010011101101 00
100011011101111010100011011000010001011000101111001001110000111
1000110011001100110011011010100111110110011011011010001101011 10
1001101110100111010011011000001011110001101111110001100111110000
1000110110100100110011010011100111100010100110001011111100100 11
10111001010110111111100010110011111101100110110010010010010 01
10111010000110000110111001001110100100010010110011111011010 10
10111001011001111110010110011010001101110011110110110010111 1100
10011111101101010111000000110000100101000011001101000101001 110
1110111001010101101010110011101011101000011010110100110001 10101
11111011101100001101010001000011101000011111101111111011000 00011
11000101111111000100111000000100001000000001111011011010100 00110
11000000000011001000000011011001011001001011111000111010001 111
11111000101110001000101000101111111100100101110000001110000 01
10110010001100111100011011110000011100110111110001010110000 000
11111001110011110101100111100001101101010101011001001011001 11111
11000100110000100010111000000111001011111000001001101000101 1
11011010111101000111000110100110011001001110011011000111111 0100
11001011011001111101010110001001110001010110001110001111100 011
11011110011101001010101111011001100010111000001001100010000 000
10001000111110011011111000001101100111110001111000001010110 000
11110110010001111011011010110101110010000110011001000110011 11011
10100011111000110011001000110101110100001000000001101011 0
11100101100011011100010011110001110111000001100001111101000
10000100010110110111001001110100000001101000011011111111001 10010
11011110000101110010101110010010010111011000011001110110000 110
10001111110110110110000110100001111101111100011011101100011 0000
10011001100100110000000111011000000110101101110111101000111 00110
100011111000100100100010001001111100001010111101001011101011 01
11001110101100010110001101000001100010110011000101011110110 11001
10000011100010011110100011110110100010010111000100010001100 10010
11111001011101011011001100110111001111001100111111001000100 11111
11001101110100000011100011101101001100110010000011101011111 1101
1000011010010111000100110111000110110010111010011001000111 0011
11100000111011000011111110100001101011011001111101000110001 11
11111010010111110101110011110000110111010110011110010100010 1010
1100111110111001011110110100000111111000111100111111 0000
11000100100110011111101101100111101110100001110000111101111 1011
100001101111100001101110100011101111101100100000011100101011 010
10111101101100100111111010001101110110001000111111010101111 11
11100001110010111001101000000111100100011101111000000110000 1100
1010110000010110111010011110010101101011110101100101100001 0
1100110001111101100010101100000011001100110011110100001010110 011
10010010101111000100101001000101010011110110001000010000000010 0
11110111000000110100110110001001010011011010100000111100011101 01
11100011110000111000000101001111110110000011000111011111101110 11

11010001010101101011011110001100010001100111111001000100111100110
11111110101001110000011000101110010110111101000001111110010000
11110000000111011101011101000110000100110111100010111000111010 0
11001011111000011001111100000110111001110000111000010110100010 1
11010110110010111101000100001100100010000100011100110100101101
10011110000101111011000001110000101110010011001111001000100011 10
10110011001111000000010010010111100110110101101001011110100000 1
11100110100011011111100010011100001110011001000010001110010101
1101111111011000011110011110111110000111011111001110111110
11101101001110011011010111011110010010110100110000001110001011
11001111100011000110100010000111101100000011111010101001111110
1101111110101111011101011010110110100001101111110111011011110 10
11111000010111110110110110101101110100101111011111100010111000 0
111001011000000000111001001001000011100111101110 0111101001
11100000010101011110011000010010101100110011001111000011000110
1000001000000011000101011100100101101100010100011000101000001 1
1011010000001001101110001001010111111000100000100011010011001 1
110010000110111100111010101110101100000010000100011000010001100 0
1001011001001011000001010101001100111100110011111011001111001
101101100110111000010000101100000011101010001101101111000100 1
10000110001100110011001001000100010100100001100100111110100001 0
1001110000100011011011000000011000011111000110000001100 0
1101110010001000000001101001000100111111011001010000111110111 01
11100000000101011100111001000001000011100010101100110000100101 1
1100111001100011111001110010010110000100010001000100011110110011
1110110100100110000010010001010100101100100000100000 0010011
1011010111000100100000010011110100000001001000111110101000010 11
10011011110010111001111110010111111010101111111010010001000110 0
11001101100110011110111001111100110011110011011011000110110001 0
1001101101100011111001001111101001110101111000101000110010001001
1110100110010100110100011001011001101111100110111111001101111
11110011011000110111101101110010001101100101110011110110011110 11
10010010010010010001100100011011100110111011001110111001110110 10
11111001000001000100001110000101001111011011000110111111011000
11110110011100000010100011111101100100010110011000000100100111 01
11111010110111011100000110110111001000100001110100001010011001 10
10000111101000110011010110000001000111010010100001101100111011 01
11100001011011001100101110110001000101100001110100110001001001 0
1010000001001100011001100110111001110100110110110110100100101 11
10001110010001000000101111101101101111010010100001100110000110 01
1010111111000000001000010001101011000100100101101111010000110
10010101110011010100000101001100110111011111100010100101111 10
10011001110001011110011101011111110111000100100000111001001000 11
11001111110011100100001011001111101100010101001111110110100011
101000011011011100110011101100110011010101101111000001111101 00
10101110111011001110001001010111111110110011000001010101001000 111
100010000100000111010010010001101110000010010011101001100110010 1
10011101000010001100000100000100101011001100111110011100110110 0
1001000110110001001011000100001010011001000000111011100111 01

110000100011110001110010100100001001001001000111111101100011
10000010000010111000101011101111011010110100001100000000010010
110100000000000011000100000000100000110001000111111000000011110
100111000000010010100101001110000010011010111001000100101010000101
101001110011110001000010000000011000001001111000101010011011000
10000010010011101000001011010110100000110001100000001001001011100
11011011111100000111000100000100101011110001001110010100100110000
10111010010111000111110010010011110100001000110100001000010110110
1010100000010001000110010000000011011011011110111001011100100
11000111101100100001110110100001111000000101111011010101111111
100110001101101001001110111011000100111000011010000110000001010000
110111110110101100000100100100100011011101000110011100010100101000
1111000000100000101000100011100100100011101000010111100100001110
111010000111100010111100010010001100001010111010000110111110111000
10000011010111100000000111100011000100111010111111011001011111
10010000101001000111110001100011000110101100111011110000101001010
10101001010010101010001001011110101000101011110001111000010010
10010010010001010010011010100111000011001111100010110100101000110
11000101111101001100010011100000110001000010111111011110010001100
110111110100110011110001000100100000101011100110101010011001100001
1001010000110110111101010011010000100010001000001000001110100101
10100001100010100010101110001100100011110011000110110010001110110
111111011110110000000000010110101010001010111100111101011110100110
110010011001001100011001110000110000100000100111100010100011000
101100110000010101001100000111011100100101010100010001010010000
110010010101110111111010011000111010010001101001111101100100
100011110000001101011100110111100100001001100010110110001101101
11111110100110101100011100011000010100010010110001010001001111010
1100000111110000000101011001000110010011110001000000000110001110
10101010111111110000110011011111100110100010100100111000000110
1101000110010110111100010110011001011000100111101101111110100
1101010000000011000001110101010111010010100110100000100001010010
101001000100001001001000111010001011101110000011000011000010001000
110110110011001100110100001101000100100110101101111100000001000000
1110111010010100011010100011001111110100010110001101000110001110
101000100001101100000011100000110011101000010100111001110000010
11101110011110000010111001000101111101110100011010001001000110
1100111000101011001000000101101011111110010101001001100110011100
1000101011010111100011111101001011001010001111000000011010001100
110000011111000001001011010001111111100000101111011101001011110
101010011100100100011110010001000011001000001100001111100001110
1011010001001110001000101000011000010110111011100000011000
11011000001011011111101110100100000110011110100001100101111010
10001100110111100111010110011110000011100100000011001000101000100
11000011100111001110111000011010111110110101100101100100001100
11100101100110110111000000010111000001010010011010001110100000011
110011000011111101000100000011100100010110010001101111001000000
11010001001101001000011101000100101101000101101111000011000011100
10000000111000111101010011101111110110100000111100000100111001100

111100101101101110001011101000110110011111101011110110101111101
110100010110011110011111001100100110010110000010011110011110101
110010011100011001001101111100000111100001110011110101110011
111101000011101111100001100110100001100110100011111011000111010
101011111101000100110100000100101101101000110110100111101110011
110101110000000010100101100011100000010100101111000110000000
111011000011011010000110000001110000001110010001110010111101111
110000010000111001001010011100100101101101010001011100000101110000010010
111110000101100110001110001110101000101000110011011111011101101110110
111010001111101100000111010000101111001001100001100000101011111
111011101000110100100111000111101011110010110001111110110011010
110101101100011100001100100111111110110101000111001001011011010
110011110001101101101011110110100000110011101111100001110010
101011111101011000011101100010101000001101010011011010100011000
100011000101111101101000001010010101010111111011011110011010010
110000001010101111010111100010010111010001010100110001001100110
110101101100010111010100000101111011010001011011001000000100111
111101001111111000010000101110110101011111111001100001011011001
110011010000001101001101000100110111010100011110011110000110010
101011111001001110101110001010110111101011000011001000100111100
110100101000000110111101111001100010100000011101000100000111
110011101101100101010011010000111110110011101110111100100001010
110101000011101010100111001001001101010000100110011001110110011
110100001010111001000000100100111101001011011101100010100001110
100110110111011000101010010001010101110000011011100011100011
100111101000110000111010000111101110100100000100011000000111
100101101001011000001010110001011000000011001110111100000011101
111001011100001000001101000001001111001010000101001100110011100
110011011101110100000100010000010011111110110011001111100010100
101111101010011111001010111001001100101110110001111100100100110
101101100011111000001000111000110110110110011011111010010010001
100111011001111011000000100011101101100101001000000011001100
100000111010010011110010010011011100110000010011101010111111011
100111110101011111110110011001111101001011001001011000100111000
110000100011110110000001111110001011110110111000000110101100100111
111011010100011010101110000010100101001100100111111101011011111
110001010001010111011000100000110000011001110111101000110111011111
111000000101000000100101111011011100111101001000111000011011001
101111100011010011001010110001011001000111111100100101011100001
110101111000100100100111011110000110110111000000000111000101011
100010001110000101001110000001110001110000011010110101110011110
100011000001101010101111010011001100000010010000000100011001100
111010001101110001101010110100101100111000100001010101101100
110110001101100011011010110101110000111111011111100111110010011
100001110100001011100001010000011101001011101011100001000000
111000100011011110000011100000101001010100000010111111111000
100111110100011101110100101100110011101100110011000001111111000
100000101100000010100100011010000000101110100111100111111010101111
100110001001000001010011001011110110110110100000011010001100111

111000110011110100000101000001110011101010110000111101101000001
111100001111001011011000110110001111110011001100100001000111
111100001100111000010011110100010111101001011011010110010001 00
10111001101101111001100011100010101110011000100100011110000000
110110101100011010000101100011101010100000110100010101101111111000
110010011001001110111100111111001001010110101010100010110110
110010110011110001111001010010101100111011011101110100011 01000
110000011001111100101110011111111011000101001100110111111110011
111011010101111100110110011001111010101111101010111110011011 001000
101101000111011000111111100011100110111100101111100010011 1
10010000111100000000100111000001010110001101100110101100011111
101101110111110100111000000000100010110100011101101101001 00001
100101011110110000000010011110101100101011111010011010001000
11111100010001101111111110101111110110101111111000000100110011
1100101000110110000011111000001111011100111110001111100010111 1
1010001100110010111101011000111101000010010110101010101001 10011
101000001101001001010110011011111100010001001110011110111011101
11111100110111011111111111101111011111001001111111000000011000
11111000111110010011100110111000011111111110001111111110001 101
10111011001010111000011010001011110000010101111101011110001 1
1110011001001100010000111001011000000010000011110110011111111
11011000011111111011101111110111011111010101101000101011101 000
11100000011110101101101101111011111111111100001111111100110111 1110
1101001001010110110010001100000001111110001100111100100011 11010
10101110001001011001101000011111110101101111110011001101111111
11011000100000011000001101011010010100010110100001000101 10110
11010000001110101100011111000001001100100000111010001110100 0000
1110001000111010000011111011101111000011111010110111111010010 01
110010001110000000010101110110010100110110001010001100010 010111
10000100011010101011111010010011010001001001100110110100110 0000
1100001100110100010111111010010010111001100101110101111101110 010
11111100110110110111111101010101011011100011011000010100101111
111011101100100011001001000001111001001111111111100101111110111
1000101011010000100001010110100000111001100010010100000111010
10000111110001011011010011011110100001011110110000011 0111001
111110010111101101001101101111001011011011111010100001001000 1010
1110001101110010101001111100000001101100011111111111011010101 111
101001111101111100010110011101100000011001100011000000011110
101100101100010110010001010101000110010001000010111001100101000
10011011100001001001110100101100011100010010100111010001111 1000
111000000011111101010111110100101011010000110011010000100101110
11010001011010000011100101111101000010011001000111011100100111
11111011100000001111100010110110110110111101101111110010110101
11111101000100011111100011111011111001101110100010101110000 1011
110010011100011001000000101100100000111111000011001001110110 0010
10100111010111101101000000000101010110101001011011110111010
1011000111011111011110100001011110100110100111101010101111 1101
101111001100011110000011110001010101011101100111011111000001 1111
100011011100010101111000100111100100111101101000011110110111110

11001011001011010000111001000100000111110101101111000001100
10010110000001100000110100001111111100010110011100001101111
11010100011101100101011000100011111111001000111100001101010000
11111111000100000111000001011110010010100111000011000100001 10
11010010111101100010010111000010010011010110000101000001111 00010
100001111011011000110110101011110110011010101110001101101011 1110
110011010001110000001011000001000011110000110101001101101
11011000101011011001111011101001101110010001110010011011000011
11111100000110110010000011111101100001010011001100110101110 10010
11111010011101010111110101110110001000001101010001110100010 100
1001111101110110000001110100011000000001010110001110000010 11010
11111011000011100000010101110110010111100000101101000000100
10011111010010000110100001011010000010000000011010110111111 10101
11011110001100010010001000010010110111011111011110100111111 00000
10000001000100000110110001101010101110000110010011011000110 111011
10100000000100010010000001010001001111001010110001110001101 001
11100001111001000000011011010100110110010011000001100011011 001
1000000111000110011011001000011001011000011111010110001101 000100
11001010101011011000011001010111100001111100011010110110111 1101
10011111011100101010011011010001110111000000101111001100110 1011
11111011011010111010001100100000101111010001100111001101011
11111111001110011110001101001000000110010010110111010100111 0001
10000111111100111011000111001011110001011101001011100110111 1000
1010000011000000011110010000011100000101101000000111001111 10011
10101011001101011111010001011010010001010001110111000001101 01011
11101111100110111110001011101010010111101000011110001000111
11101111011000001110000111111011101111001100100111101110001 110
11110000101110111011000011101011000111110111111100001
10000101100010101101001001111100000110000010111110010001011 101
11110010011110111000001011010000011001101011000111001101011 00100
10110111101100101110011000101111111000001101000111111000100 00101
10110011010101100111010000001010001110110010001010000111001 111
11110010100101000011111011111000110100110101101111001001110 111
10010001101111010101110110101110010001111100100010010110110 00111
10011000011001100110111001111100100111101011100011101110101 01
11001100111011111110100111111100010101100110100100110011001 00
10000100110101101100101011000001010011010011000001010101100 101
11110000011101110010101010011111000011000000000111001010100 001101
11011101001001010110110000011111111011011001101101100100010 10
11010011110100011000111010001111101110101011110010110011111 01
10001111111000001100110111000011101100000111011110100011101 0001
10011111000100101100001111000110001000110000011001100111000 001
11001111000101100011011100100100111011011110110100100110100 110
11100010101100101100110111001110100101111111111100000101100 000
10111001111100010111110000101000000101110110110001101101101 00
10010000111110000100000100111001101010001100010111111110000 01110
11011111110010110100101111001010101111111111001101100000100 1011
11010001111101100011000000100001011011001001110110010111011 10110
11001000100001101000001011110111110010000000110010110100000 00

11101101111010000101001111001101111010000110110111000010111101
11010011101111100110001001100010101110101110000100111011100010
10000100011111011000110111100011000100111001100101011111101001100
11101000001110011100010000110110101011111101001100011001000110111
11101000010110100010101101100000110111100111000001101111001000010
11000001111000011011100000110000111000001111101110010101001110
10111011111001101011001011111101100011010111010110100001111111
10101111111111000001011010001011000111010111100000111010011001
10100011000101111001111101001100110100111000011000010110000110111
11010101100110010101101110110111100011001101111010010100011011011
10000011001111101000000100111100101010111010010100111101100100111
11110001001000110000000110001111101000000111000111111010000111
10110111000000110101110010001000011010101110111011111100010100011
11110010110011000011110000111011110111001001011110001010011110
11110110010000110111011110001101010011100110100011110011101100000
10101110110101000101101000011110110000101011011000000010111000000
11011011001001110111000010011001111100100011100001111001101001011
11000011101011010101011111011000000110100110101101100011001111100
10010100100110011000010011001000010010010000011000001011010101010
10101110110101110001011100100110110100000011000000011100110110
11111110100101111001110001111011011011110010001100111110001
10101110001100000011101111011110010001011101000101101100100111111
11100000011010111000101001100000101110000001110101111000011
10111001110001011110110101011111100000001001010000010111100101
10010010000111110111011111011011100100001011010000100100011001010
10100111010011001101111100111010111000100101101100001111110000
11010110000101001111011100001110111100100001000001100110101111
10110010110000001101101000010100111010011011011101100000011111010
11101001011111101110010010110000001110100001011000000111111100011
11110110111111011111101101001101011100111001110011100111101011011
10011111110100100111111110001100111100100000101101101011010011000
11110101111110101111111110100110001101000011110110101011010110110111
10101011111100100111111110010111111101111000101001100111100111001100
11001100010001010100011111110000111111101000111111111111001111
11011000101110001100100001100010101001100100000001000010100110111
11000110100110000011111010111110100010111000001011001100110001000
11010000101000100111011100111110011000100010001110001101000101011
10010000110001000110001010001110110111101011010001101011110
1101100100011101110000001010001101111101000110010011111000001000
10110011100000110010110010101101110010100001001000010100001111
11101010100010100110110101100111001110001110001110110011000111111
10011100001010000010000111100110110111100100010000100010011101111
1011001101100011000101011011111001001110101010000100011000010010
11011010000000011000110000010100010001110111010101011100100100111
11001000011001110110101011101110000000011011110001111011100111111
10101010010100000100010100101011100101101011001111000101100110011
11111000010000101001001110111100100000100100010001000001110111001
1101111111110110000011101000011101011101010001001011110100100101
101111111110101111001101110001011111111001011111110010101011111111011

111111011101111011011010000010010101001100110111100101111010
10000111000110001100000010000110100100101100101111011111100011
110110011000011111101011100011000100110001001001010001011101
1111111101111111001101101001011100001011100001011111101101011
101011110111001110101001100111110011100110110011101111101011011
101011110001010101011001100100011100011110110011101110010010010
1111110011011001000001111100000110100001111010111100101011111
11110110101000001011100111001010011001101001110000010111001111
111000101101000011100000010010110010011110110100110000011111111
1100101010101001100011000110110011001101111100010001110001001 11
110100111101100001000010001011011100001111010000111110000111111
101110001011100100101110110000100001110100111001100010010100010
0
11101010001100010010101110001101111101001100010011111011001 1110
111001010001010110001100010010011000011000110000000100000111
10100110000111001110010001110010010110000101110000100110100110
11000101100100101000111111011001000110100001101101011010
101100001000001001010110011000010000001110010011100000100010 1
10111011001110000111110000011111000101000000010001010011101 10011
1000000111110000110010010110111100110010000100001001111010001
1111010111110000010111101111110110011111110110100001110011001 10
111100110000011001000110011011101101001100110111110110011100 1010
11110101110000001001011011110110111010000011011000011111010001
110101001100111000000011011110010100001111001010101101100110
1100111010110010000010110011010100011011101011010100101010100 0
10010010000000010000000000000000000000101010001111010101101
11001111111011101110011110001010100000010101000100000101000100
10110111110110010000110111110011100010100000011001111100110100
1101111000111010110000101001001011001110100010011100010110000 01
100001110001010000110010110110111000010001111100101000111111 0000
1000010100010100100110101010000101001010100000100001011111010001
11011010101011000111000111001110011011011011011101111011110011111
101010100101000001000110010010001110111001111001011100001100 1
101000001100001110111100011100000101000110001100010011101110 1100
10100010110101101101000000100101101101010011010011111000000 01011
110000100111000011110000100010100000010000100111001110001111 111
11110110011110110011101001110100101101000111101010011100010011 11
10010001101000001100100010001111000001010010010101100100011111 00
10110100101001011000001101011100001010000110111000110011001011 01
1111111001000001111110111000010000000010011000101011010000011
11001011000010100110111111010111000000001000101111001001
110111101111001010010001010101000000010011011000110100000001000
1101100100001011000001101111011101110011100111011110111010111 10
10010010011000001010010110001100010100000111101000011111011101 00
11100000000000000010011100010100000110100111100101000110010100 0
10110101000010010110101100010101000111110000010011010000010000 0
110000000100011011010111101110010010011100101000100101010100 01
11001000010101010110110110100000011001101001011001001001111000010
100110101110001011010000110011000111010011000011011010110011 00
10001111111101111101100001000110110101011100000101001011101100 01

```
11101110000111100100011000110010001100011000100010101011101111110
10001001111000011101000010101010010101110001010111011111100001001
10111100100010010101000101010101100000011100011111101001000000010
10101011100100000010001111101010011010111011000100100100011011
10101000101000100001001001011101010000111111111011111111011111
10110010010101111001100011001011101101001000100001010001110110
110101010011100001001111100011011000011001001100000110000011
111010110010101000011111010010001000110001010110100001011001
111111110011011110011100111010101100000011100000000010100101110011
10111110100100111000001111100010100010010100001110011110010011
110011000111001010100111001111110011110010110001001110101000111011
1101111001010010000111001111011110110101100110100100001011110
10001010011110101111001000100010100011101000000100101101001
10101111111000100010111101001011000110001010010110100010010100001
11100000011000001110111011100011001100111111101110010011110000010
10001010110100010100001001101001011110100001010101000000010011100
11000100010110100010000100010010010011111101100110001001011011
10011100011111111101010110110111100010010101111100010110101011
100011100100001000001010010111111101011011110001101101100000001111
11010110110011100100110100000100001110011011000000011001101000
10111000100000000010011100011000101000110011111001001011001001
11101011111000010101101111000110010001000001100010111110001110
100010100001110000110110101001010000110001001011000010101011001
1011000101100100100110011011100111110111010111101100010011101
10011100011101101111000111010100010100111000000110110001001101
10100011000111000110101010001000111010000000000100100011000000
11000101101000001001001110000010010011101011001110111101001100011
11000101101011110100110111001011010010011001000101111010101110111
111000101100100001011011000000101101111000001011110000010110011010
11000001000001010010011001000110111100011001100111111101111010101
1001100111001100011010001011111011000000011111100000111111010010
10011100011111011010110011000000011110011001110100000001001
10000100111111001001100110100000100101101000011100010110111001
10000110110001100100010001011011110110000001100111100101010001
10101110110101011111111001010101111100001110001010111010111100111
111000011100110110010110111101001100111000010110011001000101011
11101110100000110110011110110110110010011100010101001000011000001
101010110010001100000111111110011111010110010000011011100001111
11111110011111001110110011011011010011001110000101011101101010
10001100111001111000101110000011011100000110111101010111001000011
110110000100101001011010010111000010100001000011101000011101001010
11001111010001110100101100010101100011111100001111111011111110
10111000001100000111100101100100010101001011110100010111100101001
10011011011100111011010000000101001010110111000110111000110111001
1010010001101111011010101111101001111111101110011011000101111011111
11101000001111100000111011010010100110110100011001011010001000010
10011011010010000111011110101001001110100000111011101001000110011
1011000111000111100000011100111001000110100010011110000001011011010
11100111000010000010000001011000101010101011000111000010010110110
```

101111010011111010011010101000100110101000111000010100000110011
110000100111000101111000000000000010111101110010010000001011001
100011100011001000000011100001001000010000010011001101100010100
110001100111000100101111001000110001101100100100111000010001111
100000100100000110100101111101001101001100100011011011110010101
100111110000010011010110000001010100111011010010101011000000000
111100001111100001011111110011011101001110101001100111100000110
110011010001110000110010000001010111100111011001111001000111000
101110100101101111010011100001000010110101110110001110100100010
101100101111111000111100111010000010010010110011001001110111001
100010101010000010100011101000110011101000011110110010010010011
110010001101110111100001001011010001110000001111110101010111111
101100100010010011011000011111110001101010110000000010111001111
100111110000001100111101100011111000011001011001001101101000000
101011110010111011001011010110110001101111100010011010001000111
100101001110010010101101101011100011111000100111011100100110010
110101111010111101111100010000101111111001110001101111000100111000
111011010001100111010101110001101100111001111111111011010111100011
111100001001011000011101000010010110010010111100011101000101010
110001011010110011110100111001010010010101111110100011011110110
100100111011010111100011010001011110010111111101100010011000
111101000101111110000011101000111010111011110101101100100010010
111011011010110110000101010001001001101011100100011110100101110
111100001001010101100000011101101101111111100001101011100000110
111101110000111110000011011010001101010001010011001010111011111
111000001110100000010111110100100101110111100110011011011011000
100110100000100111000101000110111000001010001100001110000011100
100110100101110100001110101010010010000000010011011000000100100
100001110111000101100101110110000011100101001110011100110101010100
101001010011001000011100000010001010001010001110000011101100011
111110000000111000011001110100100110101111011010111101000000
101100100011111011010111011000001110110010110111000110110010011
110001011110110011010110111010001001110010001100001111010010111
110110000110110010010111100101001100001001101101001000010000011
101001000110001111110001111110000001001101111010001001000011010
111110000010111010100010110101111011010011001111110110001001
110010111110111111100101010011001101000111101100011100101110010
110011011001011000010101110011011011110100001000110000
100100100110011011111001010010110011001001110111100011011101000011
110111000111111011010010110010101110110000010100011001100101000
110101101111101010100111111011010111111011001111110011011001110
110000001000000100101100111010001001110000011001011110111000011
110010000111110100100111110000010011011000101011100001010101111
100100100110001111101100010010111111101010111111111101100010
111111110100111111111011101111110111001111010010010000001101010
111001111001101110101011111110001111111111001010111110011011111
111010001100110011101111011000000100111010101001111111100111110
110010110001011000010011001111010001110111001110011011101110010
111100001001001001100111110001010111011001011101111110011110010

111111101100111110011011010010111101101110001101100101011101
110111110011111000010111111010110111110011011100100111111000110
101011011111000000100010010000100100111000111110110100100011001
101111111111101001000011010001100011010101111000001011101111
101001000110100110100011010101111110101001010101000011111100011111
110000000111011000011111111011101111111100111111110011011011011101
110100010010001010011111101000100010101011111011101010000111011
111111011010011100001000100111100010001111000010100000001010
101110100110101100101110010100011110000011101010110011001001100
110110100111011010000100110000001011001010010111101000011110
101011111000110100011100100011100111010011111100001011011001001
110001111010100111100100111100111110011010101101110001100100011111
111100000101001100110011101100010001101111001011001001101111001 0
100110011000011111111100010111110111110111110010001111101101101
110101101101100110010011110000001110000001110111001001001000000
111001001011011010100101110100010100010110010110111001111011 0
101101100001110000010110100111100000001110000111011000001100101
110100001010011000011010000011111111000101111101101001111111010
101110000110000111011010101111011110001001011000000001010010101
100011000011110110101110011111110010011011001000100110101100001
101010110110000100010110001000100011111001000111100100 01
101110110101101001101000001100101101101010011011000010100111100
111001101110010110100100100100111001111000101000101101100010000
110101111000101111110111101101001110000001111011100010101110101
10011100001011011001111101110100010110110110010110011110010001 1
100111100011111100000011000100111010001100111110101000001000001
111100101000011011010101011111101111001110011111100111100110 0
10000100011011111100000001111101000101010011011010101111111100011
110101110001000011100001011011110010010000010100101011001101 1101
111010010010101010000001101101011000101110100010000010111000100
100101000110011000111110000111110101100010010001111000100110101 0
110110011000011001001101110000001101010111010000110011101010100
110101011011011110000111110011000011101101011101001000001001001
111111010001010111011000011010100100100110011110110100110110 0110
101100001010110011010000101001100010101001001011011110010001110
101101000011101011101101001011111101000101111101011101111101011
111000111011110001001010001110001000101010001001010011011010101
101011101110110011101001010100000010111001001101000001100110 1
110000010101101100101111110010000101100100101111101011111101110
110111010000100001111001010001001100100100011010010001110101 1
10000101101101011001110001001000101100110110011011110001000010 1
110111001000011001000100010100110001101010110010010011010101011
101100010010010011110010100010100110111101111010101110 100010 1
110001000111001111100011110111011001010110110001010001100011111 0
111101100101010000111000000111110110001001111101100010001110 1
111011000110101100100000111010011111101001011011010011010111001
110110011001101000110000010010010011100111001110001101001010010 0
101111101111101110000010011010011000100100011111111100001010 0
11111101100010111001110011010101111010110100000010100000011111001

101101100010000011110001110110110011010110110011101011011000
101101101011011110111001011110110001110111010001101100100111
110011010001100110011011011000000101110100010101100001101001110
111000010111101000011110010011111111010011000011100110011011
100100110110101111011010101110111011011000001100100011001100111111
111010101111001101011100010010011000001100100100000101111001101
100111001100001011110001111110000100000011001101010111100101011
110011011001001101100011101011100001010110110110100100100111
100111110001100101111010101010010011000000110001001101000000101101
100100011100010110011001000101011110110110110011001100111011100
110100010110100000011001000110000111011011011101101100101111000
111100010011100000111010011100100110110000011110101001001010110110
111111101000011001001110010011000101100010011111111100000101001
111110111011110001111111100001000110100001110011110101101011010
110110111100110101110101101110111001001110101110001111110010011
111101111101010010010010000010110101111000100101011011111000100000
110010111110110000111001010101100010010011000100111111110110000
111100000010011101000010011110111011000010000101001111100011001
111111101000100111011110011100000010011101110011010101011001101
111110010001101000011001111110011000100101111101111101011101000
101100100000010111110000011111100000101100001010101001110010010
111110000111010011100111000001101100011110110101011111110100011
101001100101011001000111101011011001101011100010011000110
101010001100000000111001001100000100111101000000101110000000111
101000111010110011001001001111000001100111011100111001000011101
111111100001010111010000111010100010100001100110110001111100111
101000011101001010000011101101011101110010001110100101100110110
10101000101001011011110110100011101011000101001101010111111001
10010010111010001111110011110000100100101100111101101011011101101
110111000100100111011101110100101011100010110100011010011111100
11001000101110000011101110000011111101010010110011011010011011000
1111111001001010100000001101110100000000011010111011100
110101100100010001010000100010100100111000010010000110010010001
101110110001000101101001000111100100000101000010101111101000000
110100011010011010001101111101100011000001010110111000101
100000011000101110110111110011111111010101101111000000101101000
101100010100011000000011101100100111000011110110111100110110110111
110011100100011110101101001101101011010001010100010001010010001
100001111111111011011000111111000100000101001010110100111100000010
100000011101100110000111110000010110001000010011010111110001
101100111100011110110101100111111011111010000000110100000010110
100001110001011100011001100110011000011110000100100111011
111110101100111101101011110110001011111010001111100110011010
11101110110111011011111011111101111001000001110111001011011110
1001101110110110011110100111111000011101100100010010111100010001
101000010110001010011110111001001011111011100111000010010110000
111110011101111110010110111100000110011111100000111101010110011
111110111000100000111010000101010001111101010011010111110011011
100001100011011001011101100111011000001101101110110110010011000

111100000110001001011010011011001101001110111010010101001101
111011100111111010000111110100010011010001101110000101010010111
100111100101011001111100101100000011110000010011110101011001111
110000100100000111011100111000000100111100010110010111010011000
111111101010100011000001101010111100010001101000010001111101100
100000011101000101111000011001100000001100011111000111111000000
110001110100111111101011101111000000111101000011100011010101100
101110001001001100100010100100111010000001101100000010001010100
111100010111111011100111100110100101000111101000101001111010011000
111100001010110001001000010001100011001001110100010110100001001000
110010101011010000100010011110010011110010011100011111101000110
101000111100111010000011001001011110100011110110011011001001010110
100100110010010111001110110000011010001111110001000111101011011
110110011100000111000010001010111001101001111101010011111000
110110001101110001110010001011111010001001011110101010110101100
101011100101110000000111100010111101110001110110101010110110111
100101001101101010101101101000111110100111111000101111111011
1110111011101111101011110111011101011100101110110100101100111101
101001010110101110000001110111101101011100011110100111010101110011
101001110000011001001110011011110011011110111001110111110000000
1001110100110110100101011100001001011001000111111101000111101100
1111110110011111111010011111101101101101100011101000001110111
101110000110000111010000101010000000110001101101110011111101
100100000110000100011000000010110101001000101001101101000110
110110011001010111011110111011110010000100001000111011110001010
111010110010101101111000111001010000111111101000110101011011010000
100110111011000011101000011010011100001110100110111011100101010
100101010101000110011010000000110101101001001010001110110100
110001001101010001110110100110011110001011110000101111001100011
1000000111101110100010011100010011000100111111100000000010101
100000000011111010011001000001000011101000110011011010110100011000
1000011010100010100010111001011001100111010001000110110001
110110011111010011000000100001101000010010011111110111001010001
110010000011011100110101011110101101011100011011001101110101001
10010010010011101101100111100001001010100010000010101100010010010
101101110111101111111111110100011000010000101000111000011111010
110000101110000101111001100110011011100110111001110100000101
101010001011011100100110011110111000010100101100110111101100110
111111111101110111111111101111111111000001000011011110100000011010
101110101011100011010100110011001110001111111111010001100011010001
111111001011100110110001011111111001001111111110001111111001
111111100110111111001100101011100110011100110110001101111001010
110110001111010110110010101011110110110101111111111111100111100110110
110010110000110000100011011101111001101000110010001001110110001
100111010111101000011011011001001100000011100000010101100101001
100000010101100100111101110110001001011001001010111101001011111001
101001000000000100011111001011001101011010010100111011001010000110
100110110011111000100011011101000010111101000111111000001111
1100110101100000110010001010011111100011000001000100100101000110

111100011000000100000000010100111100001000010110010010010110110
100101010100100010000100110100000011000011011010001010011111111
100000100010101010110110000000100000100000100100000000011000100
111010001101000110100011010111000010011110100101000110101111111
100110110011001100101101011111011001001001000100110001100110000
100101000000100101011011011000001010000101000001100011001000011
111101001010101011101001011111110100100111010001101010110101100
100110001110000010111101111101110100010010001001110110010110110
110110100100100011000111011010011100101110100011001011100110000
101000100100101100111000110010111011001101111100101000101011010
101110000011011000010101010100111010001111111101111010110000
100011110001000011000000100011101101101000100111110100100110001
110110000001110100000010101001111110010111000010000101110001100001
101001110010100101110010000010011110000100101111100000001001
111011001001000111011010001111101100110000011100111101000100100
110100000100111110000011110000000001000000010100111110111100
110011000000011101100111010100001100011110000010011100111000011
101010011110100111011100010001010101110110100000000011101111
100100101110111000111010001000011000000100111001111001110101101
110001000110001100110010010001000000001010101101000011000111000
110011111010000001001110010100111000000100010010110010001000
11010111101010001100010011111111111111011001000001100101
110110100101011011001010100110001111000000111001101111110010101
101011010010101101011011001000001100110100000011010110000011110
11100011001000111001110010000001000001000000000011001101111
11001011001000010111000111110010010001101100010001100101111101010
10100001110001010010111001001100100011000110001101000110001101011
101100010100001111010010010000010001000110111011111010001100
100100000011010110001110101010000000000101101111000101111000
101000101001001011111001010011111001110101010011111000101001
101111001111010110000000010011011101011000101101110001001011
101111000100010000000110110101111111100000101101111000000011010
110111110110100110101111001010000110000110101000000011000010011
100111000001111001001010101010001110000100110000000010001111001
100000010001100111100100100110110011101101101000000000010010010100
101101000011000001011111011010011110110011100011100000010100011
111110010010000010001100001101010000010011000011111010010110010100
10100010010101101001001111100101100110011111101111111111101111011
110100011100111110010100100110000010100110110001000000101100111
110111010000111001001001000101110000010111000001011111110010001
1000001100001110000011000110001110100110111111000010000011100100
100011110000000001101010110011001101100000100110101110010110001
101010100100011100100101111010001101101011110100111011011111110
111100011110010011100010011100010001001001001110000111101011000
1001110100001100010111110010001000111111101100110010110111010000
10101101100100101110010100110110000000000101000001100100010
111100110011100011011001110110100010100101101000000101110011101
111111100010100111000010100001111100100010101001000100011000010
101111001111001111111101011111110111001101000101100111101110000

100110010011010101100110111100111100101110010011001101011010001
1010110000001101110001101000000101000110111101000000101001
1110001001111100100101111010110100001101011110010001111110111110
110010011011110010011001000110011001110011000101001001011111
110011110110011100011110000011100111100011011010001110110111101
110001100001100100010000001000110111100111001111101001101100111
1011000001110110100000100111000011111010011001100011100101111
1110010010011011101000110100110010000011110100010010101111000
1000000100100010011011001100111111101110000100011100001110110110
1000101010011000000001000011110000110101111010010011011011001000
1100011100010011110110010010010001010110110110110010011001100110
1000000111011100010001101111001001111100010110110001001011000
110110010011010000001101101010010110110001100111011010110011011
11111010110110110010011111011010101111111000101011101000000101
11111011010001111100001011111101010101111010100011001011110000
1101001001110001110101001111100000100011110001011111101000011111
11010000101001101110011110010011011000100110101100111101001001
1011010001000000010010111111001000001110010011011000100100100
1011010101111011000011001101100001111101101101101001011101110
100110111111001110000000001110010011100011100000010000001010
11111101001111001010010001110101111110000111110000011111111010
111111100100001011000110101010001101000001000101000010001101000000
1100100100111110100110001100100111001100010100110111110110110
11011010101111000011111011110010110111011011001100110000000110
1010011000010110010011100111001010001001000101111001001001001
1011101110010110000100011101100110010010111011000111011100011001
1000011000001011010010100110111010110100010001010011000001111000
11101001010111111111001010101111000100111110100101011101000
1001100111011110000101111010011001100110110110110000011010110000001
101011011000101001111001010001001101100011010111110000000001101
1010111011000011100001111110001011111110101110000110111000000
11110111011010101101100000010010110010110011100001111011111000000
110100011111011010011110110010011000111001000111010011011001101
10111110100111100101110100010001011010001011010111011111010010000
111111001110011001011101000000101100100101111001101101001010001
1111010001101100110110001011011011000101001111000100101010001101
10001110100001101011001000010111100000111111100000111101110001
1011001001101001111011111011000000010001111101100100111011011011
1001000100101111101000111010001001000001000101110001001111000
1110000011100000111101101111010010001111101000001000000010010010
11111000011000110010010110000100110011001101010111001101100000001
1011111101011101100100101111011011001101011110100000011011010110
1011100111011110110001011110111001011000011111010101100011011001
10100110110101100001110110011001100111001100001101110111110011010
100000011111101001011010100000000010100011001110001111000011011
1001100100101101010100000011010100101000110001111011111100000011
1110110001100000111110101110110010110011110110101111011001010
1111000010111110100101011111101100000011100000110100001011000011
11111100111001101110000010110101101100100010001011010000011101101

101110100011001100011000010010011000110110001001000001000001100
110110010110011110101001101101001101110001011110101000011010
111101000111000011100100101011000001111111000010011110100001011
101111100010001011000100101100111111011110110000010110011001111
111111100000110000011000001001101110000001001010111110010111101
111100100010011100000000000000000011011010011000111101011001101
100100000111110000111100000000101111001110001000100000101100
101100010001010101100100110110000101000110101111011111010111010101
111110100110100110011011100011101111011100001100111100011011011
100011011011010110111111010111001111000011111101011100100
10010111000000000011101000001001101001101011111000011100101110001
111111101110110010001101110110011010101111011100111010001000001
110110001101110000001010100111010010100110010000111110011111111
110111010001111111101001010111101000011110001100010010011110101010
110111010100010101010011100100011111111011000110110111100001111
1001101110110111000110010001101011011010011011000000100101111
101101101100101010011111100011100010010010010101011000001011100111
1000000101010101000010110101101110000000111000000110100000101011
100011111110010001011000001100110100001011110110000011011111010
100100010000011110100001011100011001101101001100100100111110001
1111001101100111011111111011110101111111111101101111100110110110111
101101001001000101101011000011110100101010100111111010011111010
111000111101010011111100110110110100101011111111100011101101100
1000001010101001101000010011011001000110111110100100101111011000
10101111111110101011111111111100111111110101000000000110101010
111100010100111011110000011010011101010011111101001110011011
101100010101100111111000110110001111011101100001100000100000
1000010011010010111001011100101011111001011100011011111111011000
111101100100110011100100110100000100110110100110011011011101111
110110011111001111111001101111111010110111111100010100001
1001101000101101000100101110001101100001011111001111111011101010
1000001110000101001111100011101001111110010110100001011001100
11101111111000110111111111111000000011110111000101100000011111111
11110110011011011100111101100110110101111001101101111011111111110
10011101000110011000111000001111011000100010110010110110000101
11110000010011101100011111101000010111011000100101011101110
101100110010011110001100001101001000111110001011000011101001111
110111110010110111101000100101011000100101011110000011000100110101010
101111111110000101101010011001001011110011111000111111110100011
110110000110100101101000011011111110110101011100111101101111111111
11101001010011110010010111100011111001101001100100011010101111011
11101011101001000101100100011001110000000011000011110110111000
101101101100010111101111000101100111101100000101000111010011111
10100001001010000110010000001111001001001110011110101100111110
101110101011001011101010111111011001100101111110000001011011100
101111010001001010110001001111011101000010110000010010111101000
101011111111001001001100111000110110011011111100010111100010111101
11110011100001110101100110010010100111100010111000000111101
1111111000010010110010001001101101000101101000110011011000111110

110011110101100111100001111101011100111000011100111111111010001
100101110101100110011000111111010110111011011000110100011110010
100001000001100110011011110001001000110011111000000101110110010
110101110010011100101101011110011111011000010100111000101100110
111001001101101101010000111101001010111110010011010111001000001 10
100110001111110110011011011010110111111011001100000001110011010
100110111000000111010011001111011100110000110011001100011000110 0
111010011101100110000011011011001100110100111110010110110 100
111010111101010110011011010101100010000111100010000111111
110110000010111011010011111100001100110100010111011111000001010
111010111101100100010110111010001111101011001011001111010111111
101010101010000000110011011110111010011000100100101001100010 11
100000100110110101110111101111001111010110011110111001101011100
100110110100010101100001010000100100000101010000011101100000011
100111110110100110000100010001101100011100100001000110110 11
101111101001100110110100011011111001101110000011111011101111110
100101011010001111101110100010000111101101010000011000010110 1
100111010001100111011010100111100000111000101101101010010001111 1
101001110100111101100011110000011011000110110000100001010101
110000000110110000001111100010101001111101001101111001001001011 0
100000010101110111100111000111111010011100100101011011001111 01
110010010001011100000101010111000011011111010101011011000100001
101100000011110011111000011111011101100000111101111011001001 1
101100100100001101100010000111011101111101111100000000111000 0
101111101110000111110000110110011100001111100000000100110010000
101101000100110110001100110011110110110000011001110100111100010 0
100111101000010011100000110111101100111010111011000001111100111
100100111110110110001100011100010111110110000011101010110000000
101001010111110001111110000111001111000010011001111001011011000
101111010010111011111010100110011111001100101100100111110111100
101101001101101000011010110001010110010001100100010001010110110 0
111010010001000010000011001111110111100010111111100100111100111
110110001111111010111100110001111000001000110111011000101 1
110101111010111001011100111101001001100100101100001111101100001
111000011101110000011011000000010011110100011010101110010000111 0
101100111111000001110101110010000111111001110001101100110110010 0
100011010000010111000101000000111110011100011000001101100001111 1
111100010001101111000100100110001011001101110110000001010001011
100111010011101110000010101101100010011011100000001010011111001
100011010000001101101001001110000011110110101000011111000101 10
111100000111111110110001101111001000100110111100100100100111100 1
111100100011110111000100101100111110110101100001011000001100 11
111100111001101110010110001111111100011101100001001001001110111 01
111000101001111000111110100011100010011010101001100110100100 11
101110010000111110000111110100001110100001011101010010110011 0
110011000101010101100100010100001100100101111011100001101000 00
10111000011001110000011111011011000111001110100110111110010011 11
100000110101100110110100010001110100010100111100011011100000 11
11100110101110011100111010000011001000111000100000000111010000 11

101001011100111110011110001001101001011001101111000000011100011
101011001100100001101111001100110111101000110010011111000010
111110010000011110000110001000011001100011111110100011011011
100101011011011000001100111101011000100001111001000001111010 0
1111111000000111111100010101010110100001110101100010100110111
110100000011101101110000100001001100101000011001000111110110
100101100010111100111101000011110100111111101000010001111000001
110010010111011100101101111100011011110110100010010111001000 0
111100100000001101100011010101100100111111011100110011110110000
110101110011010011010010101001011010110011011100110100011 00100
101100011110000001110111001011111000100001011100101011111101
110000001110101110010111000111100010000100110001010111011 1110
110011111000111101111011100101000000000111110011100010111010000 0
111111011000110100100111000101011110100000111110110011100001 10
111011110011110011111111110011010001101101100110111011000 1101
10111111000001100111100001010011001001011011111011101111101 1010
101100100000001110100001110011100010010111000000011101001111 10
111101001011111110110110110111101001110101110001010111100010111 0
110001111001101011011110001000001000100110010111010101100110101 1
101010011001101000011000000110101101100100011111101011011001110
11111011100110011101010010111110010000011100100101101111000010 1
101111101000111110100000100111101001000111110001001111110100 01
10011001001100001111010100111100001010000111000111110100011 0000
1101100111100011011110111110011010010001010011001101100110101
11100100100011111110010100101101100010000011011001000110000 0
11101110111110111111111000011101111000000110010011110100101110
11111111001110010000001111011001101010110001101101011100000
111001010100000110100001001101000100111000000110011100011111 10
1111000001110110000011001100111011111110011000111110010001001 00
11101101011010110000000000110010001001111110110100110011011000
10101100110111110000001110100011111001101011000100000101001010 1
11100111001111011110011110111111011100110000111110011010110001
101101101001000101000010100111111101010101111110001010111011 11
1111101001101011001001011101110100001101111110010010000000 00011
10011110101111110000111011101111100001010011000101111101101011 0
101100111011010000110001101111000010111011011000010101100100101
1111010101011100000011101011111011111001100110100011011111001 00
10110110010011101111001101011100110000111000001111111110101001
101101101101001011111101000000011110100100110101000001100001110 0
1111001011011010101111011011001000111000011101101011111001110 00
11111111000111111000010101110011010000011001000011111101010111
110101110001100001011010010010010111100111101110011111000 1
101110111110011100110001110001100001111010011101001100100101111 0
1001110011101001110110111000011010100110011001001000010110111
11110101110101001101100001100000110001001111111000010100111110 00
10001111011000000101000101010101010000110000001110110010010 00
110000011101000010100110111101100100000000110000000000000001010
100100100110000010110011101111100111100110001111100110110111011 1
10001010011101010110000000001000000000000010000000000100010100

101111111100000100100100011110111111100111001000000001101011010
100011111110111011111011010101001101101110001000000001111111
101011000100001001101100000010001101100111110110011000111011100
100110010111101100101010100101000100100011111110001111010100
11111010100010101010110100101010011001010110111100010100100100
100110111010101111000101111000011111100101100000001001100000011
100011010001111100100111101110011111111100000001000110010110110
101111001101111111011111101100101111010111100101101101101110001
100110111111101111110110011010101011110011010101110011001110000
100111100110011110110001111110011011010100111000100111100010011
1010010111001101100100011111110001110001001111001000010101010
1011111001101111001011110100101110100011111101001000010100110
10001100010011110111101011011111010111011000101111101110011110
1001100100010000110000110001000111011110110010001101101011011
110000100111010000000011011110001110001001110001001111110000011
110001011010000100100111111101101100011000001001010000001000111
1001100000111110111000000101000110001010010100101110000100
110011100000110100010010110010001010000010101100000010001010
110001010001101000111001101101110100000100101111100001000100
1001010000000011000000111101000110100010010011011001001000010100
10000110011110001100011000101100011100001100101111111010110
101001010111011011111101001101110000110110010101110000010000
1110111010110111011001110111010011111101001111001100111111110
100100101011011110101001001001000000111100011000000111101011
1100110100100100110011100011001000010001111010011110100110110
10111010001101001100011000110100110111101011001111001110010010
11000011110111010111110100001010100011100110001101001011100
1010100001011001000101001011000010101011011010000100000011100100
100111000001101000001000101110001100010111000010010100001000
10110000101101110000001000011110000011000000111110111000111110
11101011010100111100101011100111011100111011100110100111000001
100101100000010101101000010010111010100001100110110101110
1001001000101001001000100000100110011110101100111111010101011
1011100111110101000110011110110101110011000100101011011011010
10110111100010110100000011100011111101100101001111111110110010
1110110011110000111001000111011001000101001100010001000110001
111001001100011101110101100101001100000101111100000111101110
100010001101110001011100100100101110000001110000001
100110110011101001111001001001000110011110100000101011111101
110000001001101101110010101001011010111001101110001101111010000
101101111101110101000100001100111011000010001101000101000101010
100100011011100011011110000010101100110011110110001100010001
101100010111101100101000001110001111100111010001100110110011111
10001001010001010001010010111001011011000000100001110100011101
110110010000001010011000010010000010011110000110001101101110
11101000001010001001111001100110110111101010101001001011000000
111100000101110101011110101101010111100100011100111011101010101
10110001011101111011000111110100001110011110101111100000111
1010010000011001001101011101001100001011100011110011100101011101

10001110010000110001001101100000011011011100110101010010011110111
10100010100011010110100101000100111100100001000000000001011001110
11101010011011010011001010110100010101100101001011111111000
10010101111011011010001111101101101101011101010001001010100111010
11000111111000001011100001000100001110001001100001100111100
10111101110111011000010010101111001000010111010010111010001110011
10000111100000000010001100110101110011100100111100110110011011
11101000011110000011000110001100001000000000101110010110011001
11101101010011111100010011011010000101000011001001111010001010111
1110000111110110100000100000110010111101101101011111111101010
11101000100001100100111111000111001011000000010101010111100100
10011100100011100100000110001110011110000101110111101110011001
11100001011111111111101100100000111111011111010100011011111001110
11010011001110011001110011001111001101110100011111100011001101111
10000010000000100110101011111100101111010010111100010100100111001
11001101111001010001010010110010101011011111110101100101011010011
11101100010101110111101000010100011001111011010011101010000101100
10011101000011101110000101010111001111101011000110100000111110
10011101000101110011101110001010100110000011000000100000011011
11010010001010011001100111110000010010111010000011010011111000
11100111100001100110110000000011101111111010001111100011110111
100110111000011101111011101011011011001110000001101101000000111101
10100011000101001101010011100101111011100111001110000001000000000
11011110010001011000000111011100100110011100011001100011100100
11011110010110001110001111101011011111100111001111010111101110
10011011110011010011011001011001100100100000010011100011011000
10001011110110010011101111111000011010001100101010011101111000
10011001101000001100110110111000010010100111101000001111110010001000
10010101101100010100001000001010010100110000001011101101001000100011
10110000000110010010011111100100011011111000001001001111111011
11010000000100011011110101111101011000011110000010101011110110
10110011100001001100000010100001111010010011110100110001111100110
10011010001111111010110011000011000000111100100100110110010010000
10111111000011110000001001110100010001110000101100111111100000
11100000010011101100101011101111110000111100001110101001110
110010001010110010010010001101101000011101110111000110111001000
11010011011000001011110000100110111010000011100010110000011110
11110100010011100010011100010011001111101000101011101000000111
10111001011010111111101001111001111000011100100000000000010111111
1010111001100000000100110100000001100000110100000110111000111001
10001100100010001000100110011011000101011010001111110000010010110
11001100100111101101110001100011011110010111110010001000000001101
11011011010111000110010010000011010000001010100100100001010110010
11001000000010100110010001011111110110001011101000011110110010000
10011101011000101101011011000000100001111000100000000001010011
10010101111111000001111100000011101100001010001111100110011111
10001010011001110010001100010011101000100001101100011000100110
10111010001000011110001011101100100010100100010001101000100010
11010001101110111001101000011001010101000111010010011100001110111

1101001011011101111000010110110010011110001001111110100111110111
1010110010011101001110111100011111100000100111001010001100110111
1101101101001010010111110110001101110000100011100000111111101100
1100000011101111000111111111000101111011100011100000111111000
1111101101001111000111011101100010011000001101110000100011101
1001100100011001101110000110100100000010101111101010110011111001
1010010001111000000000111100001101001011100100101111001001011110
1001100011100100011111111000100001110100010000011100101010101111
1111010101001110010001111111100011100010000010011110010001011011
1101101101000011111010010111100000101011111110001111110010011011
1000110101011110001001111000001001110011101100111011011111010
1111111000001100011101001100001101001010000100000100111011011
1001010100111101001011001000000100111001110100101111101010010111
1101000110001010101110011111000010010100100100110101110110011110
1011110000001111100100111010111001010010111011010101010101101000
1100000000111000000001011010001111101100101001100110000000100101
1011110000100011010100001001000110111011111010011101111100011
1001000111110000111110000111001100111100111111000101001011100010
1100000111110001011011011101000000111000001011001000000111010010
1010000001010111011010000110110000111000100100001001010110011
1100111110000101110010000011101111101011111110000100110110010 01
1000100000101000100100110101100000100110111000000110011001100111
1100000000001101000011001101000010100100010011001110110100 1111
1001100110000111100100111010001010010110101111111001000001111 10
1001110001001001110101110100001011111101101011101000101110001 01
1100011000010011010001101100100100001110111011111010001111110000
1100000000011111110011011100000100001011001100110101010011 01100
1100010100011000010010010011100000101111100000010110100 01100
1100111010000110001000010111100101011101011111110110100000 10100000
1101001100110100110010111001000111001110100101000011010010 11011
1101010011000001000111110000011110000010101101000101010011011
1010001100111010011100111000110110100001001111101000010000001
1110100101100011111001000111101111110010111111001111001100011100
1110111110111011011111100100010111100001111110011111011010 0001
1111111111100110010111110011011010001111101000101011010001011 11
1010111110110101111111001001100110011001010110111110101110 0100
1000011111001101100100010101000110001100000111101110111001011111
1100011101111000010010000010110010101011111111001110001110000
1110011000100011011100100010111010110001010101101100011111001000
1101010111110001101100011001100101011011101110101011111 0110000
1101001000100111110001110100011100110101111101011111101101011111
1001110011000001000110100111010110110111101011101000001010001111
1101100001111111011010111101101110010001001001001110101110000010
1000110111110101000001010011010000010010001110111010011010 10
1000111111001101101011011111110110111111110001011111100111 1110
1000111100000011000111111110001101110011111101100111101
1000011101010001110111100000010000100001000010110000101101110 1
1101000000111001001100000010101111100001101110101010110111111001
1001111010111111011011111111111101101111111111111111000101011101

111111001111100000010100111011010010100011011100100010011001
11111100101111110010011110111000001010000011011001011110111010
10101101101101110000111010001001001111100011010001111110001101
11101100100001010111010100110011011101001001101000010000110101
11111101001011110100010110010011100100100101101000001101101010
110010011000001110011100011001111011100110100001000110100
1010011100001000010111001111100111100100101101011110110100010
1111001111111101110100011010001010110100100011001101110111010
11101001011110111001110111100010011011010011111101110110001011110
10100010100111110100000100010001010000111101011100111011101100
1011111111000111001111001000000000101001111100111001000111011011
1101011110001011110011000000000100001101101100111011111000101101
1111111000001011011010101110111000100110101110011000110000101
10111111110011010001101100110110011011000101101101001010011001
1011101110000011100011001000111011010010111000111100001101011110
11101001000000011010011010000111101111010101011111011100001101101
11010010101110100001101100001110110011111010001001110000111011
11010011100100011011110000001101011110110101111101111001011000110
1010010110110000111011010001111011101111111101010101011110000000
10110111110010110110101011001110100001111110101111111101000011110
110110110011110111100010110010001001000111110000110000011101011
101100010110101110101100110111101101100010010110000000011100101
1000101100010000110000110111011000100111011110111111010001111010
1111101000101001101000101001000110111110101110001000111011
1001101111011000011011110000100111000000111011011111100101110
101101110000100100000100010111110011010110100001111100110110011
111010000001100000111110000110010111110010111100100011011110
10110000001100100010101110100000100011000101000011101101111000
10101100011101000111110110100001011100100010010111010110101101101110
10111011001000000110000010110110110001011011110000010011101111111
110111001010101101110101010101110011110101101110001010100000011111110
10001101000011110011101101010111100111010110101000010101011
101001111101101001111111100010110111100000110110010001010101010111
100011111101101101100111100000011100100011111111001111000110
11001110111001101110011100010001000001101111111101001001111111
1101110011110001000110001000001101000010100001111111010111
1110000100110110101111011111110010010111001001011011100100011
1101111110000100011100001110001011011010011001001000011010001110
11001001100111110001101101111110000111111010000110001000010000
1100000011000001100110000000011011001010101100100101011011001111100
110001010001111111110000111100000110111101000011011010100100110111
11100010110000011100111111110011100101100010101011111101000
10011000110011101001100111100111001111111010101111111111001011011010
1110100010100010101000000000110100000100011001000001001110010000
1001111101011011111010010010111011000011011010011111011100011
1000001111110100111101010001001011001110010111010010111000001101
1100111011110001111111101100000000110010000110011110111111111111
1111100001010100111110011011010110001010110111001001100110110000
1000101100111101010111010001010100111101011101111110000101110001110

```
1011001011111110000100010110110010101100000001011110100011001111
1011110001011001001011011001010111100011010111000011010010111
10001000010100111010110000010000111110000101011100111001001100
11011110100101011100100101111011100010011100110110001100
1001000110001110000111111011000010110110110011111111010010001101
110011000000011101011100000011101110011011110100011110110
1101011101001111111111111011000110110010100110100010011111001
1111111011000011110111110111100111100111101110110001101011110
1111000100100101001000100101000100100101000101001001000100100
1011000111011001001011001001010001010010001001010010010001001101
1101001101011110101110001001001110001110110110001101100010100010001
1000001011011011010111010000010110110011010010011011010010010010
1101100110111101100001101100110111101101101100001100100100000001
10000000110000100001010001011110111010000110000110000110110110000
1100001110101100010101110110101010111101110100010100000010101
1011101001101101001001000011101110110110101101110101100001100
11110101101110110110001101001001001000011110100100001111010
110010010100010110000011101010001111100011100011100011101101100
010010010001001001010001010001000001111000100100100000111100010
111111111101111111011111001111110111110110101000101000101000100
1111001111111111100001110100101101110110000110010010101101100 1
11100001110101110100111110011101111110101110101110000111110110 0
11000001011001110001111101000111011110010010001000010110111 0
10011101100011010000111001111100011011110110000000111101110101
10011101011110010110010000010101101111001001000110001101100101
110111110110000100000001100011010000000100111100100110111110 0
1000101110110010011110011110010101101000010101110010000111111010
101110011100111010011010001011011010000000010011100101010111
1011001111000110000000010101011010101111101010111000000111100000
100011111111010001010010001000101101110101110100001111110010 0
10100101101000000010100110011111100100111100101100100100101 1
11000000001100100011000001011000100110101000111000100100011000 1
11010000111111111001010011011101100010100000110110001101101111 1
11111011011100011001000100111111010010010001110010110110010001 1
100010101010000000100001111011011001011111010011001100110111111
1110000100010101110111110110101011001100110111011111111000110011
1011001011100000110111001101101100111011011011110001010011110101
1001101001100000001100101000000101011000101100010111101101100110
10110000110001000110000000101101100000111011000100111001100001 1
11111010001000111010000000111001100011000110011010000000111010 0
1111001111010100011100000011100000111110111111011000110111000 0
11111100110011111000011101011111100110100000110100010001110100
11101101100011011000110000001100111000111000010010110111101000
111110000001110011111111000011011110010000111101110100011011000 1
111011010010101111100101010101101000010101100100011100111011 0
1110011100011110111010110111001110100101101000001111101000111
1011011011001100001111010001111111000000011101011111100000111011
1000100101100100101100100001100101101100110100100011000100110111
100010011101100001010111100001010110110100110011111000001111011 1
```

111000011001000100110111100010100110101010110110010101111100100
110100001111111100100010011110000011100011100011111011111001
100011101111101011010010111011001011110111111001100111111000011
110101110001111101001011111100000001110010001110011010000110
110010001110000100111110110011011011110111101000001011010000
101100101100000011111100000110100110111010011111011100110
110110000101111000011111011111010011100100110011000001111110
100000011110110001010111000001111010010110111001111011000001
110000010110011010010101011011010010111110101111001110001001100
110001001001110111101010110110011111000000110110110110011001
111111100100011110110110100111110101110101101110011101001110
100101011110001011100010010000101011001001100111011011011010100
111000001011110100001111011101001000001110100101110001011110
100001000000111000100010100011000100100010111000101011111001000
101000001111000000100100111100101110111011010101011101000001111
111110110000011111011100110101111100000000111000110011110100001
101110101001111010001100100111100001100101111101001001110100011
111101010011010010000011111000011111010010111011001111010111011
100011001000010101110110000100111001000100101110100000110111100
110011111000001100001011111100011110011010000110000101100100100
110000001111000011101101101100011101111111100010101011110010
100110100010000110111100000001101001100001110001010011111100001
110010111100111000100010001000101111000110000011100110101110100
110101100101101011111000000001010011001000000000011011001011001
110001000000001101000100000101100010001110011110011101100101000
100111010100011010000111010110110110110100110000111010100100
100101000000000110001011011100111000100000000010011011111100111
100010000000000011001001000110010011100101000100001011101001
101011111110110100110110101101000010000100100100110011011111
100001001010011001000100011111101100101010011011100111010010110
100011110011011110101010101111110110010111100000110001010111011101
111000101101010000111100110110010100110010100001111101010011111
101110000000000101111110001100011010101110001011110011001100100
111111101001000000100101110011101001000000010100101100000100101
111111111010011111111110011111110011011000100111110001110100001
100101100110110010111101011110011001101110111100000100011110001
101111101100111111010011100110110101110111111011011101010011101
111011110111000001110011011111000111000100111011000111100110110
101010011101010001000011010101000100011010101011100110111111110
110001000010100101111110010010010110110000010101001111101001
110111110010101010011111100010100110100100100010010101011000000
110011011101110001010101001110010110001100110111001111100100011
101110000110001110001110010101111101100101111010101001001101110
111101101111000100011100100100100100100111000011110101000100001
101000110000101000101111011111011101000100011001010100011001011
101011000011010110111011001010101100001101110010010101101110000
111111110001100111100100000010100010011000001011000001100100001
110100001001011110110000000010011011110000001110101010010001100
100001110010110001110101111011101010100110001001111010001

111000101001000100111111010010011010111001011110100001010100101
111001111100110011000011011101101000111101000111100001111010111
111010010110101001100101100100111101110101100000011001100 10
111101010011010001110111000100101101110000110001101000000010001
110110110100101010010011111101110111010011000001001011011010001
110010101100001010100101111000011010111001111100000000000001010
100000001100101111110100110011011000110110011110000100101001 10
111001010111000001010101100001001000010110100011001111010 1110
101001001010111011010011001001010010011000001001011010111 00000
101011100011000100100000100011001111000010110110101011111110001
110010001100110111100000011111101000000001001001011001100 0010
110011001100101000000100100001101101010011100001100000001000110
100111001100111011111110110100110101101100111100111100111 00101110
110000111111011110110010010101110000101110100011001101010 1111101
100100011001000011100000010010011101111101000010000010010110001
100110000011000101011111101100111010001100011011001100111 1001
101010101010100101001111110000011110110011101011001100111 0011
110010111110100000101100100011111001100000110110111110100 111000
100011110010000100110000111110100110011001110110110001110101100
110110011110101000100101010110111100110101001000100100101 000110
110011111110000100010111101111010000101001001011001100100 00110001
100001111000010010000000010011010110111101100110101101101100011
100011000001100001110010101111000111110010000010010011110 00001
111111101001011001100011010111000111101000110110101100111 0011010
101110111101100000111101001010001100100011010101001011101100011
100101110001110000001010101000110000101100011000100001011 11100
100001110100001110100000000111101100111110000001011000000 000
111100110110010101110001011000100011001001011011110110000 110
110011001101000000110111010011010110100010010011000010100 111110
101011000000000010000000000110011010110101010011011110001 10100
100110111100001100010000001111111111011111111110110010011 01000
110000010000011000000100000111001010110101010001001011110 0110010
100001011000101010010110100001001110100011001010111010010 1011101
111000101000000010100011110000001011000100111010110001100 001100
111111101010001111000011110111010010101000000010100101101 101000
111101110011110110110101000100100101110000000100100011011011010
101010010101101001100101110111011001100011000000111110110 0
111111010001111101101000100011000001001110110000010101011 01100
101011001001011101001000011001011110011111000101101101111 1000
100000110101111101110110111000111001100001000110010000100 000001
101001000111101010011010010010000101111000110111110100100 1001
110001111101011001000100101100000001000010110100010100110 1111011
110010111000101011111111000110101111000111010110010011010 10001
101011100011110101111101010100111011110011111010010111101 10110000
100001011101001110101001110101001111111101000100101011110 100010
100111111110100001100001000001000011110000011101010010001 1010111
101000001000101100000010111000000111100000101111000000001 010111
100000001110000111111010001101011100110101000110001101111 0100001
101011101111011100100011011001010101011110010001101011100 01111

101101000011100100001110100000110110101011000011001101111100010
101011101000011000010101001011110000111101111000101100011100011
111011010010101100111001101101101011011111010011000000010110110
101000101100111100101001110100101111111101110101110101011101000
111100001011101100010000101100101010111001110110011101000000011
110100001100110000010010010011000101010101111010010110011100
111101000010010000011110110101000100110100111101010000001000111
101110110101110110111000001000110111000111100000101100010000110
101101111010110111110001101101101110000001001100100000010011010
100110100010001000110110011000100010000001001001010111001011110
101100011100001110000001011011101001011111101011101110100010110
100001010011101100010001110100111101110011100110110101111000110
101110110101000010000000110111110001010011001010011101000110100
100111000101100110110010010001001000110000000101111110110010
111000011111001000110001101110010010100111100011010101110110011
111111000101001101011110110001011110000101110000101111111110
110111101000101110110110100010111010101101100101011010110011
100100010110110001110001100101000000101000011010000000011010
111010000000100000111000001010000000101100111011110111010000101
101100100101100100010101001100100111101101101100000000011010
110010010011011010100001100110010110110101111000011101111000001
111100010011110100000011000000100111100001011110100111010100000
111101000011011001000100101011110011011011000100011011110011
101110101110011110100000001001101111101010110001011000001010111
110011110101100001010111010000110010101110100101101001100011
110111100000011011110111000000110110100110111101010100000010
110111010110110111110001010110110110010110000011010000100111110
100001000010101000110110101010011110000110101110010011000000011
100100011101010100110000010100000100000101101000110110000
100000101001110111001001001111011010100011110010001110111110101
110100001111101111100011101111000011110000000100011101001101
100010011110100111110110110010111110011101001011101111110100
101111011011001000001111101000110100001001001000110100000101110
100011001001011011001111000001110000111011111000000110000110011
101011101100100100111010001110011101110000101100100000111110001
110011001100000011001110001010100000010011001011110110001100
111111010101000100100110110010000100101011101101000010001
110000100001010101111011100010111010001110110100010001000001001
100001001100011001101111000000010100010111100100011111011100
101110000101011000000101001100001001100011011001111101100
111111101101000111100100011011010110010010011101101111000001101
110000001010110011110010001010000000100100110001100001100001110
111111101100110101111001010000101010011011010010110110100010
101001001110000010110101000001010111111100010110000010001100000
111010000111011000101001011011010011000010000000100111001111
100111110100011011100100111001101000101111011100010011110000010
110011000101001001110000001110110110001000111000001010110011111
111101110101111111011101111101001101101010100110111011011110000
111000101111000100101100001101101001010011110101010101111000000

110011111111011001101000100100101110001001001110110100000001
100110110001000111011001010110010010110110110001101100101110100
100000110011011000100001101001001101011001100100111111101000011
111100000111111100001011011101000001110000111101000000111100
111111100101010011111110000111001000100101101110101111010101110
101110111010010011110100100100110110110011010001111110100011
111110001111110111001101010101101100111010100011111110000111100
100010001100001001100000001000110111100010110111101001011000011
111110100101011010001101000110110000111101110011111011101001111
111010001111110111001011011000010011011110101101111101101000111
111000001001011100001110101110111111100000011010110110010111100
111011011100111101000001011011000000111001010111111101110111
110111011010000000100011110000010011100000101001100001011111
111010011001111110101001111111101001111111010010011100010011111
110110111010110110000011100110001101011101000100011110100110100
100011010011010001111110010110011101011111111011010111010110010
110011110110011100100101100011110111001101011110111100111001100
101111111100110111111000110111111001101110010011100100111101
100101011110100101011110000011010010001111101110011000110110001
111011110111011100110101101100110110001110010000011100011000110
110110010000101000111000100111111101101001111101100010101110110
111000101111110010111111111011001000110110110000010101101111
101000111111111011001000111111111100011111111100110111000101111
111000110111001011001001101000001011111110101110111011010011
100111001111010101110011011101011011101000010111101100000011
101011011110000000111000001111110101110100000011101101111010
110110011011000001111111111111011111111011111011111110100100000
110000000010000001010111010100010000100111101100010110011001000
100101111101001011111001101110101011110011011111001010111001011
110101111101000111010001011010111010001010110110100101111101111
100011100110010000100011001010100101011010010010100000000011001
111101001111011110001000011001001100111010011111000001011110
101111111001101011100110111101011011101000010111110000110
111001001001111111000001101110010010101110100011010011101001011
101100000011011000000011001000111000111001000001010111011111
111000100011011110010100000111100100000011101001101110000000100
111100111100100101000010010111010001011100100111100111100011011
101111000011001010101010010111100110111110111011110110101011010
100111111000100001001000001101011111110000110011001100010100100
110011010111011001011110111001010110001100010101000111011100110
110101101100101111110101101100011011110010011010010100011110011
111111111000111100000111101000101111110000111010001100000
100011110110010000001011001000110011111000110011001010011101001
111110010011011010011100100000011001100100111100001100100111110
101000111001001001001111101110000011110100101100101110000010010
101001110110010000100001000010000100100100110011101000111010000
110000000100111000010000101100010010101101000101110110100000111
101100000000010101100010011010111001100011001001001110000010101
110011111111101011001110010010101110001100101101111111101010111

101001110010110100010110111001111001010010101100011011010101110
101101101010011011111001110101110010100110100100100100000011000
111011001111101000111110111000010101000101000111110101111011100
110010100001010010110011110000000110110100111111011011011011011
111011001100010011110111001100110010110111100010011011101000000
111010010001100110110011001111111110000011000100000000100101110010
100101101100000010011011001100001101011000100001011010000111011
111001001111100001110110100000000000101001100110110001000111
110000001000011110010101101010100000111001100001010001011110000
110111001011100111000000110100011110011110110001110011001100
100111100100100010110010110011010010110100111101101101111101001
110100000010110100000011001010101100110011100011100111000001000
101011011101101010001101010100000110010001100110111011000000010
111000101010111011111100000111011100110100000011110000000110000000
111011010110111011011111010001011011110100100010111110001000000
110110000001100001101000000011001101100111110100101100101100010
110001100001010010100111100100100111100100001011000001011000111
110101011110100100100100000110110010010001111000000100011011000
111000000000101100100011011111000111001110001101001111110010111
100111111010001010011111011111001011011001001001110111110100011
110010001010111000010111000001010000111010011011010101110101011
110110001101000111010111010001110000011100011110011011011111101000
110000110010101100110101010010101100110010111001101100110011010011
110100110000111100111000010110100011100010111110101111011011110011
110001001011011011110011010010110011001110110000011110110011
111101110010101010110110100100111100001111111001001011011101
111100010110010000000110010001011011000011110000001000101110
100101111010001001101000100111000001001011011011000111111010000000
110011100000010100110110000111111011011001111110011101010000100
100110001000110010100001100110001100011110010111100001000011001
110010010111111100100101000001011010000110111011101010001001
110100100101101011010111100000101101101100000000011110000101000011
111101110111010101100010000111010110001111100100011000110110110
101011110010010111110111110101101111101110101000101101000
101101101000000110101110010000111011101110100011101111110001011
100011100111101111000110010010111100000100011100100011111111010
110101100110110011000000101111111111010110111100001000000011001
101001011010000111001111101100110111001111110110111011111010001000
111110100101101111011100101001010110110011101101111100000111011
100111110101101101100100101100010100001100110011100011000010111
111111100010001111110010010101100000101110111101110101011101101010
101110100011011110100101001110100101110001100100111111110000000
100100001100001010101100111100000110110001001100100001111100101010
100110000001010000101011000101100010111110110101001101011000
101100011011010101110110100111001111000100010100110011000000010
111100000001010100010100111001110011000001001111011011101100000000
100101101101011101111000010000111100010100101010000101000011
111110001000001000010100111011010001010011111111100100100111001
100100101100110011010101100010110111110101011101011100010000001

100111100111110011110111110110100001111100100011110101110101011
101000011101011110010100111011000110100111001010000111000101
110001100010100001110010010110010000010111010010011100000001101
111111000010101110011001100001101111001101111110000011001001
110001010110011011001001101110000101101110010101100110111110000
100001101111010001100111111100101100111110000111011111000010010
110011001000000111000001111111110001010101101101100100000010110
110101011111101000111110001011110111110000111010001111111010
111000101111101100100010110010001011011010110001101000101110011
111000000110100010111110010000001100010101110011010000111011110
111000110100111111100101000100110001011110011100101100011100101
100110010010110101110110110011000011100000111011101001011010001
100110111100110100001011001100111011101110111101111011111111010101
110111000001110011010100011011101000000010000000110011011100
110011100011110110000101011101100011001000110010011111110000011
110101111110010011011010011000110011011001011011001110101101011
111000000100011110000011001010111001001011010110101010010110011
100110000011011111010110011100010100110111010010001110100010
110111110011011000001010111000000110011110001111101001101101
110001010100111001010100100011001000111011110000011011
111110000101101000101111111011011101000111010111010111110000011
101010101011001100110111011011001100010010100011011000011111011
111110100010111001000111000110000011001001011001000000
110110010001101111000010000100001001101100010011000010110001101
110100010101101011010001110011100001010010101110110110011110110
101110011000001110100100111101000000111000001010111111001010111
111011110110010001110011100101100111100101011101111100011011100
110101110010011000011100001100010111100000110011000101001
110110000001110101101110110000011011111001111111101011010101111
111010111000011100011110111000011101001101101000011111100000111
111010111010111111101101111110010111101001011111100010110011110
110001010101101010001011110010001101011000100101111000011110
110000101011101010101100110010000110011110001001000001111001101
111001111100011111101101100001110110100100010110010001101011000
110010100111101000011110010001111110000111011011011001100110011
101111010100110011111011111101010100010011001111101011101011110
110000010010001110111001101000001011100011010001001111000101011
110010000110110111011000011001011010011000010001100100100010001
100001001000110001100000000010100100001001110100100110110011110
101001100010101110010000100101100001101001010100001000101101101
100110000010000100011100001111100100001011001000110110010111100
110001000010010011011110011011110100101001101100110011110111101
101000110011111101010101001100000101000001000100100011000010010
100011111101111101000100011010110110001111101001100100001
100000101101101110110010010100011000000110001110111011110111
110011110011011110100111101100111001100111011111111100011011001
100001110010001111100001110100000000110101101100111110100111100
101110011011101100111110110011111011001111110101000010100111011
10001010101110110010001010100101100111011101110001110000001001010

101111101100111100110110111101100111011010111011001011100011
100110111100011100010011110100011110100110100100110111010011111
100011110110001110011011110110111110011101111110100111101011011
100100111001011111111000101010100110101011110011011000100111000
100001010010111001000001000110011001111011001101111011101101110
10011000010010101100000010101110001010011001010111100000100000
1101111010110100101000100010000100111110001000111011010010010
100000100111011001111010111100011000000001011101111000000100
100110101001111110100110100001000011000101101001110001101110101001
11000111110101001010110110111110000001001100010000101000000011
100110000000010001001101001001011000000100000101000001000101101011000
100011100110001100011000100011001111111010011010110101110101011101000
1010100010100001101100010011010000111001100000011011111111100110
10011101101101101000010111100101000101011000001001001110011111000
11011110111110010110010111110101001011010000110100001111011100110
11001111001100111011110010000001010110010011111110011111101110111
10101110011010010001111110000111101101110011011010011010110110010
101100111011010110101111101000000100011001011001111011101101100000
100000010010111110111011100110001000000010100101010000100011001110
11110111110011011000010001111101110001011000010011110011100110011
100110000011101001110000010111101011100110000100110110011000000
100111110000110011111100000010011000101111100101110100011
11110101010100001000110100110000011011000000100011111011110100111
100001110110101111001111001111100110010101101011010111001001111001
1100001010000111110100101000000100101101010110100110000011000011
100101001010011010110101111000101010101011011010111100000111000000
10100101101100011100010011110000000100111110100101000110110001101
100100000011001101000010010100011001111110100010101001010111000
111011110110001111100110010110011110000010110111001111000001001
111110110011110001011000000101110001111101011010111111100011101
100111101110010100000101011010010110111011111101001100111110110011
1010010111110001100111010011011100100100111000100011001011001
11101100111000110001001000110101101011100111010111011011001001011
10011111101100101100011100010101110101000000100111011111010
10010011011000111000001111010111101101110000101010001110100010010
1101101111011011011001000000111100100100110101100100011011100
11001101110111100010111100010000100001001101100110111101110110011
10101100110111110111011111111110010110101110100011000001011110011
10101100010010000100100111000001001000000100101000010001101010
10111000110011001000111011100101011001000010100100100101010111111
110011101000110111010110001111001000101010011000110100110000
1011101111100010010100000101001111101000100011011001001001010011
100101001011100011011001010101010101100110100011010000010001111011
11101001001101111000111101010000000110110110100011100000100111011
100101001000001000000111000000110011011110110100001111001010100
101100100110101100010001100010111101000001010111001111100100010
11111101111101111010000010011000010100111000110010110001110001010
111111110001000110000101111000011011000011001110100110100001100011
111100000001010011111100000011001110100011110110000110101110011000

111000110001110001100011000001100100100100110100101101101001
110001010000011011001110100110010000011000001011001001110000
100101011000101001111100011001101100100101001100110000110000111
111100111110110010110111010111010011011011010001111001110010110
111100000000100101011101101110100111011010011010110011100010
111001011011010001010100011010110011101100000010010010001011100
110000010000101000001110010000111111001000001001000010101011101
100111000100111001101110000011101111011011111011000010110010
110010001100011000100010010011111101100111011111100100010011
101011010001101111011110000001111001000110111101110111100001
111101100100100100110001001001001101100100111000110000000110001
10001000000100001011011010110110100000010011011110011000101001
1001000110011011100000100110010111001100010011110000000101101101
111100100001111000000100111010001100010010101011101101001101
1010011010111111010010111000001100101110011110001100101101
10001101100100011100001111100001100101110010110001100011100100
100101110110100101101000000100111010111100100011110011110010001
10011101101000011101100100100101011011011001110000111001111000
101111001110000000011000000011101000110110011110101101110011
101011011101000010011010010010100001011000101001101100000
1000011000011100001111100111011100100000011111011001101010001
1101100011011100110000100101101101100011110100111000110011001
11101000110111010000101101101011101101111000001110110000100
11010001101011010000111101101010100100111001011001000000111001
10111010100100111001011001100010000001000110101000011011000110
100111101101101000111101110111101100010010011011011110000110110
11111111001001001111110100001101111001100110011101110101110010
1110010001110010001111101111100100010001100100100001100001
11100000010111000000010100110110011101000000111010100
10000101001111010011000011010000111110111011101011110101111101
1000001011110110101000110111100001001000010100101001011110001
1011000011111000110011011010011001001001101010001010101101100
101100001011000001000110000010100011110100001111000001111001
10011000110111011010101000001001100111101101110110110000010
110101000101010111000001000110101101111000000010011111000101
11000111101000011010011001110011000001011011010001101011111000
1100101011101111111000001001010111000001001011001100111001111
1111111011000101111010110011001110001100110011011011100110001
100001111101001000010000010011011111111100100000111101001011
110100011011111001000101011100111010001001110010000110001001
110100011000111001000001110011100110010010011110010001010
11101000101110000000111011001110000011111010000100110010
11010000101101100011011100000101101011100100001100010010010
11011001000110100010101011110001001111011001000110001011000101
11011011011101001111101001111101001110001100011100110101000110
110101010101111001101011110010001101101011001000010101100100100
110011001100111111001000111111110100101000111101101100110011011
1011001110100011001011111100010101100111000101000111011100011
1110111101101000001100111011011101101011011010011100000000011001

101111000010110111110000010111110101000011001000001110101111
110001101001001101101001101100000100111110000010101011000111010
100110010001100000011000101100000010111011011010100001111011100
110001010111101101001100110010010100100100010100110101101100100
111101001010111001111101110011110111001111100100101000101001010101
110110000101011001001001011111010101000110010000011101000001011
101000010110010000011100001100110011111111010011111011100111111
101100010010000111110000101100010000110011110100010001101010111
100011111011101111011110001010000111001011000100000110110011011
100001100101100011011110100001110011110100001110010000011011100
100000010111101110010001111110100010010000110110011000011011001011
110011101010001101110111010111100010000110100001011011010101111
111001101011011011110100011011111000110000111010011001111110000
110110100110110011001001010110110010011001000111111111000000
110010011001011011110001001010011000111111110100011110111100001
100011111101110100111110100000100100001010110101100000101001
110100010110111111001000110001100101100110111000100011000111111
100000011001111000000000100011011100100011001001100000010100111
110011001010001000000110000100111011000010100101011001100100000
100000010011100100100110010110000010000110010111100110011001011
111010111011010000100110010010001110100000011100000111000001111
110110100001001110111000001110101100110100110011000101011001000
101010000111010000010001000001010110111111111001101011000000101
111001111010000101011000000110010001011011011110110001001001001
110110000011100110001011111111010011011011111010011000011001010
100101010001101111011101101111000000110110110110001011100
100100010011010000111110100111101111000010100010001110110010010100
100001111011001000010011010000000111100010101011111100101101110
111000101010111000001100011100110111001110000011111110000011110
101111110001111111101000100000100011000110100110101110001001001111
111110011011110000111000000111100000111100111001010110011001100
1111111100011110010001111001101110100011111100010011111110100
111100010000000001110111010101110110100100100001111100101010
111110100111111001101111111010101111100101000110010001101000010
101001001110110101111011101000110001011111100000101011001110
111100111011111000110111110110100000011011100100011011111100
111110110101100011000000101110011111011111111011001101111010
1001111001100001100100011110011111010110010001000101111111
111001001011001000111001110011110101101100010001010111000100110
101100111111111001011001001000101101110111101100011111100101101
111110001101111011011101000101111011001100010111111101101111111
111100010110111010110111111010100000101001000111101000110100101
110000000010001111100001111111000100110100101011011110100101101
111111111001011111111101000110001010011001001110100011111110000
111110100010011110001001111100001111100110110010101111110010
100000101101000111100111010010110100111111000110101011110000110
111100000111110100011101000010100000110011110101111001111110
101110110111001110000110100011001111101001001001110110100101110
101111000011111111000111101111000011111001100010111001111000101

101100100101110111111000001111100100011101101000100001111000000
101000011000100110101110001001100010010011111011001000110101
101110010000001000110101111000000111011010110001001000011111010
110101110110011001111011001011011100111001000011101111000101111
100101100000010000011001110001010010101111010001001100001001000
110110100000100100011100110011101011011100001011111100110101010
100001101011101111001100100011111011100000110000011100100100010
111011011110110010110011110000011011011000001110111101110
101110100110001001000010111110100001110001111101001111100110
111010001100000000110110101110010100011001101011000001111011
111110010001001110000100111111000000100011101001011000110110110
1000011001011011111010100110011000110100000100110110100111001111
10100000000010010010010001011011110001100100101111000000010101000
11100100111011000001000000000110001010110011110011010110011001
11101011100000000001101001110101111111010100010010110001011010
101011101110010000100001010011011001011111000110010000110001010100
1000101001110011100111010110000001110011111100100010110110010010100
100111111000010011011010001000010000101001101111101000101001
110011110100011000010111101110000010010111111000001010011
100100011100001010001111110001011111110011110110010010111001100
11011000100011110001010101001110000011100100111111011000011011000
110011111001110001001110100001111100000010110100001010000001
1011010110110101011110110110100100110000010011110000110010000
110001011000100000011111100110101110000110101110100000100010001001
100111111011101001111111110010001101000111101101000010001100000
101101001011010000100001001101101010001100111011110000110001110
11000111011000001001100101011000110000110101110000000000100010
1111000000111000001001101101000000001110001001100101101100011
1110110100110010000100100110101110110000011101011000110001010001
100010101100011011010101110010100001100101101100010010001110111
10111110101001011000001010111101111001100110011111110110000111001
1111000110111100011001110000010110101100010101110101100001010010100
10110000111111100111011001000101000111110100000111011010011111011
1111000110000111010001011110100110110111000100111110110000101
101010011011000111100000110111110000011101110010011110011111010
111101100010001100110010110011010110000101011010111101100110010
110101100111110000011001100001010000011100000101011011110101111
110111110110111111100101001010001010011001110000111110110111
1111010111011101001010111011101001100011100100101101110000011001
1001111001001000011101011100010001111100010100111110010011010
1011100001100101100001010011000100110001101110001001110011111110
10110001101101100111000011000111000001000110110001011110111001010
1100101111101010100111110000110100001001001101000011101000100100
110011000011001000101001101001110000011101111011001011111010000101
1011111000101001000111011100001101000011001100100000101010000000
101100010111011110010001101100001100110110110001100110100000
110101101000101110011110100110011011001010100010001100000110110
1000001011010001001111101011001111001001011111000001001110100
111011110110011111111110110001111111100000010000001000001000010111

1111111000000001100000101101011110100100111100000001001000100101
1011010001001101000000111010110000110000011110101111100101111010
1000100000100010100110111011110000110100000100001010000111010110
1001011001110010000101011100010110100001001101100101001000001
1011110011111101110010000100110100010100001101100101101000101110
1110000100001010010101010110010101110101011110110010101100011101
1000101100001101100110011001100111100011111101011010001101100001
1011111100011001100100010010111110010110101111010001101110010
1111001000111000110000011101110100010011111100010011001100000011
11111101000011011011000101110011010000011001101001011001000110
1101000011100111011001110100010111101110011100111010001111100000
1000100011110001010111111101011011010111001101110100000110100000
1001100101101101010111111101001011100100110011000000110110100001
1101101100100011011101000111011111001111011101001011011110011010
1100011001000110010001100011111111110011011001110010001011011011
1000101010011000100010111111110011011111001100010111000001101
1100000111001110111011111001001101110001011100100001001011100111
10010101000000011011011011111100010110011111000101011010000111
1100110100111110000111111100001110100111111000110011110111100
110000011111101000000111001011111111001000101101111100110000011
11011111000011011011001101111101001100100100001111111010101111
10001111101110101100110000110001000001101110001010000001100010
100000111111001111010001011100000011111011101110111110011010111
1011011111100000001100100010101110000000011101001011101111111
1110111111100001110100011000001010001101100010000000011111001
1101011101011011011101000101111010001010100110110001111101111110
1001100011101100011010111010110011110010110111010000011110000
1111001100010101011011101111000010010110000101010110011111111111
10000110110001000010100101010101110110010011001000000111010010101
10001101100110100100000101010000111000001011011101010110101100
100000011110010011111011011000011101101010111000000110011001100
110010001110100010110011101001101111010001001111101011111100000
100001010011010000111111111101111111111010000011101101100001001011
100111001000000111010001011100010111010010111111111100000111111
11011000111101001100100101100100011001000011101101010011001101110
1110000000111111111100111100011011111000100111000111010001100010
1101110100101101011010111110100111111000011001011001000111011010
101111011010101100000001111101101101101010001110110100011110111010
1101000101101010011111100000011001000100110010110110110110000000
110111000101100010100010000010110110110000110100011011011011000
1111001110011100111101000011110110010110010011010000101000010110
1001011001111001001001101000001110101001110000001000000000100110
1101110110010101101111011101001101111000101010110000001101111100
1110000010110011111111001111010001001011101111110101111110011101
11110110111111000000011100111001111011011111100001110000010111001
10111100010101101011111001001011101101011010101111100011001000000
11101100111011110001110110110110101110011110000111110111000011
1001011111011100110110001111011010000100100010101011001000100001
1110011100000011000010101100000101111000100111111101100011001110

```
111010000111101101101110001111101001111111101011001011011000
110101100101000011111001111011010111001010011111000001111111
100001010100001101000100011000111001011100010100001001010111101
110010000010011001101110010011100100101100101011011111100000001
101100001100001001101110001010100110111010001111101111000
100111100110100101011101100001000000010100110110111101100101110
111110111001101110100101001111111101010101001110011100101011110
111010101010001010001101101111110101110010010001110011011100110
100010111101101010111011000110000100001101011101101000110001000
10001100011000000001101100011001000001010010100001000011110000
110111011010100110011001101111000110111100010111010110011010011
110110010010001110000011111100101110111010011111100100111111
111101101110110011110011110001110010001111000100111111011000000
111000000001000010000101110011011001100111101000011100111101100
100001100000010011001000000101100101010110101100111110101111000001
110110111111101011111110111010011010110011000000010001010110111
110001100001011001010100101100110000011111010011001001100111
111100101011110100011110001010010111001111010010100101111011010
101011111101011110011001111010011001010000011000010011001111101
100001010110100111000100111100000100000011110010010001100010111
100110011001011100010000101110011111101001110001101111101000
111110000101010100011010000001001111111011001111011101100000
11011110000000010011101100001010101101111011011011011001101101110
101110011000111111000010010100110101000110111111000000010011111
100101011110110011011101100000011001010000100011000101111000011
1111111001111110101110111000010000011011001000111101010110111110
100100000000100100101100100010100100001110100001001010111101110
110010100000100101000001110000011111001000110010001010000101
100011000100101001011000100000110000011110111001001110010101010
100100011000111010000011000011010010100110111111011110100101000
10101011110011101011010111100110010110000000100110000011010
1001111101011110010101111001010000111000001001010010110000101010
11111010011000100111100001001000000111101100101110000010101011
100011001011011011001111010000101101101101011111110010110100111
111010010011011000001010011100010011000010101011000011000101010
10100001010001110000011000100100000001010000010010101010100
11000111000001011001110011011111010010011110001000011111001011
10100011101010100110000000101011011011010100110101100110000
11101000011001011110001000101010000100100011000101111000010100
11111000010010101100001010100011010000110011111011101011111000
111010001100101000110000111100011100101111111001101010100011010
11100100010101001010010110101010010010010100110111101001100011
100101111001111001000001101001011011111100011101011001010100011
1101100111101100110011001110001110010010011111110100001000100
10100101010101011011110110010111001011001101111011000000001000
11101100010100001110001111111100000110011101100011101110111111010
11000001001101111000000101101011001011100101000110001101111111
110100110110001110110010001001010000011011110100011100011000100
11101100011100100011110011011011111011110111101101010000111101001
```

101001011101011101101000100111000011001101010000001101110111100
110010111110111010000110010011110000101001111111100001010011001
110101110111010011010000011100010100010100000010001001000001111
111001010100100011101000011111000001111001101111011011101011101
100000111100100101101000010100110111010000010001001000110001001
101101001100110111000011001100001010011000011011010111101110100
100011111000000101000100111100000101110001100101011100001010011
101011001001110001101110000100110110110100111100010100110001110
100001000101001010010100110011001011100111110111100011011001001
100011110100011001000010111010101101011111011001001110111100
101000110111011001011100000110111011110000001001100110111100
100110011100110011111010011100111001010000110111101110010001100
111000111111000110001000100000011001101111001000110010000101000
100011010111100111001000010011001010100011000010001011110000
110011110010110100001111010010110010101110010001010001101000010
101010101111110110100011001111001010001101100100111100100011001
111000010010111001001001111100100000111010011110010010110101000
111101000110010100111100011100111001101011001101110000010011
100011011101101111000111010000110110000011100000011100001111110
111010000010111101011101010111100101101100100011001001100111
111010001011111110010000101101101110001101011110001000101010111
100010010110101110000001011010001000111110001110100000110001111
110110100110100110010101011100110110011110001101111110111111
110000101001000110011011101100111001011001101101000011111011101
100011010000110010001111100001101100111000110110100100010011010
111010011001111011011010001010101100110010011101110111100000100
100101110011000110110000101110100110000111001000111011000000
111110011101101011000010100001111110001001110001101011111001
100110101001000101000010000011100000000000110001010000000010100
100000101000000011010100111111010010111111000001111100101101100
111000011111111000110101010010001100111001010000001011001011
100001101000110010111010001100000011010000011110100010101001011
101010011011111111110001011000100011010001100011011000110011
110100111111110100110011110000101101101010011111001000110110001
101110011101100011000001110010001101000111100000110010110011011
100011100010110011001111110000011011001000101001100111101001110
110000110000000000101101000011000000110100110001100000111101001
110010011011110011001011011010011001110000111110101001011
101111010000000100110110000011101100011010001100011101000110
101101110000100010100000001101010111000111001110101001110101111
100111100100010011100000011011100000111111010001100100011001111
101001110011110101010010001000110001101111011011100110101011110
100100000101011011010001010010110011001100110001111101101010100
110100011011111111000110000100001110010011110001000110000001111
111010000110111100011011000000100011010000110101001110001111011
100011101000000101000001100100111011000010011011000101100000101
110100100110101100010101000110010110111010001111010101111011001111
111101101101100111101100110010011100100111010110011011000100011
110100111111110011011101000111000010010101100110010001000110010011100100

101001001100100001010011111101110011011010110111111111001111111
100111001111110010001001110000100110110100010100100100101011011111
110011000001011101000110001110111011100010111110000101001001
110100100101100110001100100001101000001110000100110110000110
101111010001010001001110010111011001110000100101010010110010011111
110011100111001100110111110001110010001111111111000011011101011
100101100000110000010010010101100011111101000111011100001010
101001100100000010100000100111101110010110110111110011011011000
111101011111001001111110000010111110000011111010000110101111011
100001011110100101111110110111100100100011111111111001000111110
1110010001101100000011011110010110011011000000111101100000001111
100101001000010010000011010001011110000101110001101111111010
111110010000011011000010000101101000010111000010100001001001
110101101111010001111110100011001101001100000010011010110100011
1110100010110111010010110010100010100010011010000100111111
100000101100101011110100101100011011100100011111110001111110100
100111111110110011000001110100010101011100111011001001011001101
1010000001001010101110100010101111000101100110010011100100001
111001011001111111100000110011101000011010001001100010100011101
10100011010010010100110011001101101111110100000011101101100000101
100110101111110011110101000100011001101110111110110001001111100
111111011101010011010000100110110011011111111110000110110110011
100011010010010110010110111000001001000111111010010111010000001
10100111011101011011001100101100000100100011011100011001110011
1110000101011000011101000001011110000100110001011101101010010001
1110111110001100011011000101011101100010110110011111100010011
110110001010001110110010010000111101010100011001000011011111
101110000001000111000010100100111111100111011111001100100001010
1011011101000101001111111001000111000000100001001100011000001100
101110000001001001101100000110010000000010100101001011000001010
100110010001100110010001101111001110000000100011100100001010001
10110000011111011010111110011100100100001101000101010110110010111
110011001101101011000001111100101101011011000100110101100001001
10001111110100100011101001010000011010000101101101001000001100000
11101101101101010101000100001110110100001101110000010111100001
1101111100001110101100001011101000011101011000110111101001110111
101100100100110110010001110100000010100011110000110110100
110011001101101111001100111010000100111010000000011110100
1100011110110110001110101100010011111101000100110011000000
11100101111111011001010101111011001111100001101110111101000101001
100000101100110100000100011110001101010000010011010111010001100
11111110011000000000101011001010010101011110010110110111111010
111001111000101011110000100011011001001101011000000000010000111
100111101110001011110010001101011111100101101011100000100111000
11100011110101010001110000111101000000010000011111011001101001
10010011010011111110011001000100111111011011101011100001101110100
101100000110001010101010000000010011110000000111111000000010100001
1000000100110010011100101000001010101000101001011001111111100100
1111110111000000001000000010101011011001101100100011110001110111

```
10001110111111001111110000100111101001100011001001011001001 01
10100100001010111101000111011010001110000010010010111110000
11001110100001101100100101000100100111101000010101101111111010
11011101010000101001000110010110011101010010001010001011110110 1
11111110010011110011011101110111111011001111011100111100111101
10011101111111101001011111000010111111001101100010011111100
11101011100000111111011110001111110000110010110100001000011111 0
10000111000111111010001111111100110110000100010110110100010101 10
11010010000001010100111111001001000000010100010010100000010111
11111101011111100000011100010011110100001100110110011011 01111010 0
11100110111100000111110100001101100110010001101111111111101111 111
10110111100100000111110101010100101010001011000111011000101111 10
10100001101110100111000001111110111100100110110001010101011011
11011111010101111011110000100111000001111011101001001010110
11110110001111001101101100010000111011000100111000101001001101 1
11101001111110011001111111011001111110011011000001111010000
10111110001111111000101001110001000000101110111000000100100 1101
10010000000101000011000001011100011100000101011101000101101111 0
111110011011111001111100111000010000001001011100111000111111111 0
1111101011111110101011111110101011111100110110101101111111101 101
1000111111011110011011000100111110100011111001000111110011
10010110111011001100110010100100011101100110000101100001010010 1
10000101000000101101100010001100100011001001101001011010111101
11011111001001101111101101000011111000010001000001100111000
100001011001001111011100101011100100000001001111111000001101111 0
11101000111100000010100100000110110001110111001001000111110000 101
11010011111100001101011100101010100100100110110111100100011010 11
11110001000011110000010111001111100111101010111001001000010010
11100001000011101000101010011000101110111000001011110000001001 11
1100011110001000111010000110111100100010100001010001011011000 11
1010010010000010100000001100100001100011100101011100010011001011
1010111101000000010001011001100110111101111011100110100101
11111100000100110111100011000101011100010101011111011001101101 1
11010000100110000000011011011000011111010100111100000111000001
11100011110110011011001110111100100101110000000011011001000001 1
11000101010010011101001110111110000110110001001001101100011 1
10111011000000000111000010111100000101101111011000110101110000 1
10000000100100110011111001100011101000000101110000001101000 10
10111100100110101110001100110110101101100011011001011110110001 00
10101100111110110110000000100101010111111101100000000011011000 1
10000000011100001111000000101010010001011011101100011011010110 0
11100111110100111110010001001100101000000110000101111000100 01
1001100011100010000111101000101111111111000111111101011111101110
11110110111110110111110110101001111101011011110100101010100111 00
11110011000111000010100000110110101001111110100111001111001
11101100000011111100001110111010001101110000011011111011010101
11101110000110001010100110001000110111100000111110110011011 10000
10010111111000110011011011100110100001100100001000101101111100
1111000000011111110000101000000110010011000001001011110001 1000000
```

110001100001000100101101101011000110001011001010110001011100101
1111111010111110110110110100110100100100011001001011110110
110001100011011000010000110110001101001100010011100111101001110
100000001111101101111100011111000011110001000001101100110111
100001111000000110011110010001011100000100101111111011010101
100100100011101111011011101100010001101111101111110011110111101
100011111000110011110000011110100100101100010100111100011010001
110010011101001011010101111100101110010101111011111111110000
101100100001011011010001111110111101100100100000100010110100000
110101100100101111011011110001001111111010101110100111101101010
111101010110001111101011101111000011100111000010010101110010010
110110110001101011101000000110100111100010111011101101000111111
111001100010011010111011111111110110010110011110001001111010111110
111101100011011000001111111011000100001110110110011011101000000
111111010011011010111011011110001001001100110001111100011110111
100001010001111011100101101100100100111111010001110100001101100
111101011100111111111100001010111000001101010110010001010100111
110001111101000101000101100000111101101000101001111100010
111011000010111110000101010001100010001000101101100111011110101
100111011000111011010000011111001001110000010001101000101100110
111110110011010111000100000101001101111110110000000100101011100
100001010111011110100101010101101111101110100111011010100110100001
101101101001010110100001001011000010100111000000111010100001
110000110111110001110001011100011010010011010000001011000
100001000010101101110101100010000010101110111000100100101111
100001000111110011111110111000011100000010101110111110011011111
111001111100010011101110110010010011111101110010000111111110
101100110101100100000111000101111010010000110100000011100011111
101011100011011110001010011111011000110101011101001011100100111100
101100100011011110000101000011100110001010000101111001000011100
111101000011011110111100010000001100111100010110011110010001111
111011010001111101110101110100100000001000101011001100100011
111001101111000010110100010110011110010011110010001101101101101
101101000101110111110010010010000110010001000011110000101101
111111110011111101110001001000000111001000110111100011111110000000
110111111001000110000010111000010101011001100011110111000100
110110001101000010011101000011011101101101010101111000011
111000100101100000000110000101101000011011101111110101010001110
110100100110111110010100001111100000001001010001001011011101010
101011000000100101101110011001111000101101111110000111001010
100011101101000011011011010011111110011011011110010101101010100
100100000101101001100010000001101000101110101110110101011110011
100101110111001101010001101110010111010110010001111111010010000
100000000110100010110110100001100001000010101011101011110000011
100100010110001010011011110110100001111000001001110100000001111
111010001110001100111010010110110100001011010111001001010001000
101000010100011001111010111101011100111110111001111110111100011
110001100001101100001110011011001011011100111100101011100100010
110011111101110000011000101100010111001111000111110111010100010101011

101110011001101000101111010111000010011011000111011011111001 0
11100001110101110011111111011000111011010000111001110100101111 0
10100011001111001101011101011011110110001111001101100101100 01
1111011010101011100001101111000010100111100011111000011101001 0
10111101001101111100001110111111101111111111100010011011010101 1
1100100011011110000011111011000111000000110100001001000001101 00
10001110001001100110111110100010101110011011110100000001011010
10011100101110011000011000101011010000001010000011100000001101 10
10110010011001111001110000010101101010111110000101110000001111
11001110000011010101011111100011101011011000110100111010000000
11010000011000001000100000110000000111010000011111000111111111 0
1001011010011000100001111000011010111101001011100101100100101 11
11111010110101110010000011011001011000111001111011010101100110 1111
111011111100011010111011101011100110001100100011111101000011101 1
10111001100001110001010101111101010101111010111000100111001001011 11
1000111011111010011100000011100001110000011100111010011011010
1111110000001100110100101111001011010111000111111000011101 10
1001010100100000110011000110111110001101101111011000111111100 111
11011100010011100011101111100011001111100011010010001001111111 1
11001000001101101011110100011100100101011011000000110110110011 11
110110110001011101011100011101011000101110000100010101010
1100111101110011011100111011110001110010110111101001011101 0
10111010011101111101011100001111110000111100111011011110100
11000110101110100100110110101000110000010110110111011001010 111
1111110001011110111000001011000000100000001101111001110111000011
1100111101011111110000011101101010111011010011010110000101010
1100110111000011111000001111100000111101011011101000111101101 0010
101111010100000110111001010010000001011010100011110100011011110
1111010000111011011011011110111111001011010011111110110010 00
1111100011110101100111100011111011000111110101001111111111011100
110111100110001011100001011110110000101010011000010101100010100 1
10111001101100111010000010111100001000000000100001011001011000
11011001110010111000010010010010110111010000101101111011001110
11110000010101001100000011001011100011100100111011111101011001
101010101010011011000000101001000100000000100101110101000101010
1001111100111001011100010100011011001110011100110111011001111011 1
1100001010000000000001100100100101000010000101001001100 00
1111011000100111011001111011111001011000100101011010000000100
1111000101111010100000111000110101110111010001010100110100000000
11111100110111001101111101101111000110111001101100110011101010 0
10011110100011111000100110010100010111111100101011111101111011
1111010011100110111000011110000111010000111001101101100011100
11101001110111111111110111111010010111110011011010100111011110111
10100101000101001100100111111100011111100100111110110101111100 10
10100010110001011011101001100110011001100110011011010110111 10
1010101000110001110001100010101101111100101000010001100111 01
11110110011110111101000110001100000011101001100101110011010 01
1101111101110000011110110010000011111101100110111111001111110 01
10110111110010011101001001111000010010101011001110110110101111 1

100000001010100101001010100110110000000100011011001111110100111110
1100001011100100000101000000010001001111000011010100001100110010
1110000001101110010011000010000011000001101001001000000001010101
100101010001011011010000010000010011110100011000011100000110000010000
11000100001001101011110111110010011111110011111001010000010001
1001001100100000100111011011100110111100110011010111100001
11100101101010100110011101111000000101001110101000000100001
1100101100110100001101100000011000111111001010101101010010011
1101011011000000100100101111001011010011101011010110010001100
10010001110100000010001001000111110100001101001000011001001010110
1111000100000001110011110101001100101011011111110101110011111011
101100111000011110100011101100011100110111001001110010011111110
110110000001000010111010101001000101001000000111101011010111100
11010011000010111110010111010011101111010010100101010011111000
11000101101111011111011010010111100000110101010001101011001110011
110011001010011000110001100011001001010000101011000010100010
1010111110000100011001001111000001001010111010001110110110001
11001001011101101100001001000001001010110111100100000011100001
11100111011011111000000010101001101111010010100100011111000011111
11100101000011100100011100000101111110110100110010000001110110111
1111100000101011011010001001000101100000011101001000001101100110
1000011100100011101000101010100010101000001011001100011011111000
1100011111100100011000011011010110111011100100111010011101011110
1010111100110101011110000101100100000001010010010111010101000
1111011101111101000010101010101010011000001000000110010100010111
1100011100001110001001110100001111101010110100001010011011011
11100111111101101011011100111100111111111001000110110100100001011
1100101011101111111011010000111000100101010111101110000010001
11001111011011110011101010101001100010011100010101111011101101
10100110010001100100001011100010000001101011010001111001100010101
1001101001011001000101010010100101101101000101000000111000110011
11100010101110110011011111000101000010110000000100110110001100001
11110111111001101100100111001100000100111111001100111110011001
111000000000101101110001100000010111001010110101111110101011111
1100100011000101100100010011110100001100000000000101011110100001
10001111110110011011011101000010011101000001100010000011000001001
11100110110010001111110010110101110000110010110111010110010101
10010011101111010001000010010101011000000110110010100100000110
11111000010010000000101111010000000010111001000111010110010011000
111011000110100000101101010110111110011101111100111011111111101100
110101001000111111100100111110101001111100110111101000111111
1100000011011000110111100101101011110100000001000110010111
11001000011101000110010110110110000000000101011000000000001101100
100111001011001110110010100011010010110100000100010010010100010011
1100110010000011000101111101001111010110100011011101001000110011
11100111001101001000001011000011000001000111000011100100000101001
11001100111110100110111100001000111011010001110100011011100010110
1001000110000011101010100111111100011011110100011110110100010110
11100111110111100011111110010100100101101000010111010001100110011

111111000000111001111001000110100101110011111000000001011101100
100000000001110100100000000110000111001100010101100000100001010
110110101100011110000010001000110000011100111100001110011111111
111000111000010000000100000111100100000110111010011001110011001
100101011001000100011010100111101100010011000010100011001100100
110111110000100100000010100100000011001111100001110001110110101
110001000100001000000100101000110110100101110100110011101000011
111011001000111101011001010101011111010111101110010001111101000
100001011110000010000011100001111011001100110011111110110100011
110100001111010000101101110001010011000011100000110000111100
110000010101000100011001010111100001001111011000000110001110010
110110011010110110000010100101101101001010010111001011011011111
100100001000100101110111000001011000011100101101011110101001001
101011110110000101110000101101111010001001110011100000110100010
100000100000010110011000101011001000001110001111110001111110000
100010011000111100001001010011111111011101010010100111001101011
100000000100110011101110111111101010001100000110110110100010000
101000111000001001000010100000011111111011100000011110
111101101100010110001010011010110110100110110000110001010100110
101000101011011000001101010110011001100010011100001001001
101111101110010000101111001001110000101111001111110100000011
110100001111100000000010000010101101011110001100101111010
110111011001011000000001001000001001100010000010110011001101
110000010111000000011001110010010110000000110100111000000101
111101101001001110000110101100111001100110000001000011011000011
110100110110011011100110100011010111001001011001010100010110
100001000110110011101110100000000010000111001101110000110011010
101000011001101111001111001000100000010100111001011110001110111
101001110111100111010111100000000000110011001110100111101000001
110000100100101110110011110000010000110111011000101111000000
111000111100101001111101111101101000011011010011000101101001011
110011011000110110001101010000000100110110001000110011111011100
100010101011111101101110001010010001111011111001110110001111010
100001011011101001001111100100011010111001001101001010101101011
101111001000110111011001010100111100000011010010001110101010101
110111010001010010111110001101000100001000100100100111110000
101001101000000110011000111011010100011011000101001101111011100
101100010101101110110110001010111011010011001001100110010000100
111001010100110100100010101110000101000110001100011011000001
100110010111011010110000111010011111111001110011110011110010000
111110110100110010110001010000011001000101001010010111101000110
111000101111001000101010100000101000011101001111101010001000100
111101100011101100011000111001110111100010111100010011010111010
100101001100110100111110000111010000011101010110110000100101010
111011000100111101001001001100000101111111010000111101101110000
110010100000101101000100100101100001111110100101001011011001101
111110100011111110101001110110011000100100000000110111110110010
110100101010100000110011001110011110110010110010001001111100100
100011011111011000101110001001000110011101101111011010101110111

100010100100011100000010100011101110100010000110010000111001011
100101101011001000111011011001000000100000100000010110111
100001100110100000101001000101110010010011001100100100111111100
111001011110110011000110000010010011101000100100110110001111111
111111111000011110010100000100110101101100100000011101100011
110010010110010110110010010101010111011000011011010000110001011
110001111010010000110100000111100010010111101000111101011111010
101001111001100110110010111000110110100101010000101111100110
110111111101111101111000001110110010111111000110101110110011100
100110111001101101011110111110001010000101110010011010110100001
111101110011110110011110101111100001001010011001101111011101011011
111011000111011000111111001100100010100111001011100001110100101000
110010110010000101110100001101100111011010101111111001010101011000
100110111110100001000101110111001101111001010111011000011101000
110010111111101011011000000100000111010000111011010000110001010100
110010110111110000000110110100010111111101011111110000010000110
110110011000000001110110011000111011110011101111110000110
110111100010010010010000010011111011111111001111111010101001100
101001110100010110000010111100001010100110100100011011000111110
100010110010001000011110010001001011011011000100110011111010011
101101001011101011001101101110000010111110100110000001000110
110010111101110000011000000001101100111000010101110110001110111
100010011010000110110001010110001001000101000011100010001111
111001111000101101100100001100010101010110111101000111010011
101110111101100101111100100011111011001000011111100101101100110
111111111010110011000000101101110100011100111001101100110010010
100011000010001001000110111101010001101001111111000010100111101
100100110101001110010001011110011011000100011101101101101110100
101111000101110000101111110000101010101111010000111000010111001
110111101111101101111000100100101110011101001000111000001101000
110110001001110110111111010110100001000111101100001001011011000
111100010110001110100000010011011001110000100010100000
101111100001011010000100011101001000011010010011010101011011001
110110010010010111110101101101101000111100000010111001111011010
101001111100001010110110110111100101101011110010010000110011000
100100101011110101001101101011001100100100101010011101011011010
110010011111111000111111100110011111100011000000110011011010001010
100010010010000000111001110000011000000100100100100001100010000
111010000100011111100000011100100101111100011111111010110110101011
101010110000101111111110011001100100100011010011011100111110111
111101010111111100110111010101111101010101111101010101111100110111
100010011110101001111111110001111100110111110101111111101010111
100101011110100011001001100110111101111001110011001110100000100111
110010000101000010101100111010000100010100100100011110110100101
110111010111000001111011000000101101100010100100000001001010111
111101100011110011011100110111110001101111100000111111001101100
100100100011111110010011111110001111100110110110001110100000
111010111000000101111101111110010110111011010101100101100111000011
110101111111010010111011001010000101001101110011010011001100

111111110000101000001000111110100111011110000110111111110000100
100110011110110011101100111100110110000101111101110111110011
110001010011001000011011110010101100011101100011111100011100111
1100111011110111110000110011001001000101011111001001010110
111111011000011110000010000111000001001111100100011101011111001
111101000110011011110111000001001010000011001111101100001110111
10001110110000010100101110110110011111111101000110011110000011
110010010111110011110000111000100001111100011101110100110101110
111101110100000101000110010111110110101111110100101111111001110
11110101111110011111000000011010101101110100010111111011000100
111100010100100111111001101011000000101001110110001010000010000
101000110011100010011000101001111100010000000011111100010001000
11110001101001100111010000000001000101001110001110001011010101
110001101111001110111111000001010111111110000010001101100010111
1100001110110001100111101100010111011011000100011010000100110010
110011001000001100001100100010001100111011011111101000110000
110010110010000010011101000001111110110010010001001001000000010
11110000001001110011110110101110000111010001111101010110110000
1001101000010101001110100010111110100110101111100101110011110111
10000100011111100101101101000011110011000101010111001110000011
1111110000110111101111011101110000000101000000110011010111101
11111101001111110111010001011110100100100111100011101100
1010010100001001100110011101111011110010010000101101100001001111
1000011011010110000100111110011101110111000100110011011010100011
11111010011101110001000010101110001001110000000110001001010000
1100000110011010111000100000011010001110111000001001011001001
100100001110101101001110100001101011100010110110100001010011111
1111111101100101110010010010100111100011011011001001000011101
10111110111100111000010101100110011100100001111011011011011010010
110100000000111110011000110100111101110001011101011100110111000
10001011010000100110110110101110111000011000111111100000111111100
1111010000101101101001001001001001101110000001101011010000110
11001001111001001000001011000101010101011001101010101000001100
1000001010110110110100110011101000101000011111000101000110000111
10111010001001110100010110011100001011110000001011100100101111
100100011111110110100110001110010010100010001000110000010110101
100000011110010001011010011011110000000111010110101110000010101
1011100011111010001110100010101111010011011110010111111111001011
100101010110110010110011001101100001110111101000110001000110000
10101111001000000110010100100000110110001011101100110010110110100
100010000001101100111010000001010011000100100011100010100011011
10110001101100010011001100000101111101111111011100110101111001000
11000000100011110000001111100100101111001101111011111101110000001
11111011001101101101100101101100100011000100010111110000011011110
111110100000100011001000111011011100110011001101010110010001110
1011101100010011001101111100100010001100110110011110110011011010
100100110110111011100101111000011101100100111001101111011011
100100111001100011001101011000001011110110010100100110000011010110
100111111100010011010011000001111101110010111111110100101101000

100000100101100111101000100001010101101011110110001001000011001 0
101100000111000100001101101001001011111110000101001011000111 0
11011110110101001101000110100111010001010001111100011011110010 0
1001111001110000111011001111000000111000011110001101100101100 1
110001111100010000101111011100111000101000010111000100100110110 1
110001100100100111001000101010110111101110001000100000110001010
1001100100010010110010000110111101001000011010001110011110100 1
110011000101100001100100000111110100000111010000100101010001010 0
110100011010011011000000001111100000101111001010011001111 00001
110000101000011110010001110000101011010111010011101000111001 1
1000111100110001011011010110001010000110000010100111101011100 10
11001000110101110000011000001111110101011111000100110100010111 10
10001110010001001110100110011010001101010001111001100000 0011
101111101110011000101010000000000101001101100000000110011101101
10101111110000000011110000111110111111100111110111000001100111 01
1100100100100011110000000011111000010101101000011100100 0
1101101110100000110011011110010001010011100111010100111001001
101111000001101101101001100111010011000110000011010001010000 0101
101111011111001001001100011110100101111110110110110110001111 11000
100111000000101110100001011110010000101110000100100111100010
1001100010001001110000011101010110110101101100110110010011100 0
1000101000001110110011010001100001011011011110101010111001110001
1111111000101101101111110011011100010001110011000100000 0011100
1010011101110100011100111100101101101001001011101001011000000 11
1111010110001100000011111100110110101011001101100010001100100000
1100110001101111110110100101010011010001001100111010101000110 01
1100011110001001110010111110010011100001111010011110011100111 00
110111111000100010110111001110101100010010011101111111111101001
10111010010101100101111101100011010000000101110000101101000 01
1111100100001111000001110101011110100011011011010010011111101 00
100100000110011001111000011010011100000111001010100110011101111 0
1100101011100000101101001111001011011110100011010001101100000 10
11001111100101010100101010000111111110100010000001110001001101 01
1001101100100010101110010011101100011100010101101011001100110 01
1110100001010110010011001000110100001101011111000110011101111 0
11100100111001110000000011011001111100000010100111010000111
1111101100100011000011110000011001111001010100011011010100 11
10010111100101000101011110100001000010000010011101001111011 00
1011011010010001101110010111011111001000010111011010110010111
1100101001110110011111101110010011000001011111001000011100111 11
111001111011000101111110001001011011011000011110100001111101
100111110100011011110100001011010100100111110011001000010011011
11111010001011110100001101001110110101000010111010001111011010 0
11101101101011011110001110001100010011010101101001100110011 0011
1110010000101010011100001100110110011011000100111101011110110
1000100100001111000100110000111000011010011111001000011110000011
110100101110110000111100000011110000001001011100010100111100 11
101110010000101000101111101100111100001100010011110001101100010
1000010111110110010001111100001111111010010001110000100011111 00

1000110010011110011100001100000111111011101111111010010001001
1100100011000111001000011101111001101111101101001011101000 11
1111001110000111111110001000110100100110000011111110000000 00
1101000010000110110101011101100001110001111001101000101101 011
11111001101000001101011001011001100010001111100111111100100 11111
1110001100100011100111010001110110011000100100011110111010100
10011101100111001101100010111011111011011100000011 11010
1000100010000101011011001101001111110101110010111001011110
1101110001110111001100010000101110000010110111100101110000 1101
1010001001000001110011101000110111100000110100111100001111111
1111111010001010001000011001101001111010001101110000010111 01110
1010011011101000001001111000001001100111110100011011000011 1010
1011001011000001001101101011101001111000111010100110110000 01111
1101100101101011101111011001110101111100111100110010010101 100000
1011010001000110010011011100000001101111010001100111001001 100111
1010001010111001010110011001101000111111111011001011110000 0011
1011011011101000000111000010011111101100000100011100010001 10011
1101101011001000001001010011110110001101100011110000011110 1101
1000110011101010111101100000101010111101110110111001101001 0111
1101100000000101110000000100010110110111101011000010010010 00001
1110111110110101111000101110011100111101101011010111100100 011011
1100101101110010011011101110001100110000011010001100000000 0000
1000101100010100111011110100100101101110111010111011101101 11
1000010111000001000001010000100010100000000101110111101010 0011
1010000000011011000000110101001111101000000010000111110110 10000
1001111101010101010100110010000001100110011000011000100111 10111
1111011011100110110010001111010001110101000111011110100100 01101
1000111000110111101110100100011110000111010000111101100000 00
1111011011111011001011010110101011001010001100111011010000 0000
1111110111001111110000101111110110111110101101111000000100 1010
1010000010001101100100011111010000111111101000111110011011 1101
1111001100111110111110000001101111000111110000111100100011 11110
1000001011011011100110100010001101100100000110101011100111 100110
1111011101110100011101100010110100011001100111000001001001 0100
1110111011101100000100011100000001011100000100011110101101 101
1101101100001011010011010011011110100001100010001110001110 1011
1101010001100101011011000001000101110001101010000001100100 01101
1010011101010011111111000001001011001110101010101010001000 011001
1100110111111010010010110001000011000011110001101011101001 110
1000000111111000010001001010100000110110010110100001001001 101
1010110010101111010011111001001001101010111011001100100110 1111
1001010001100100100011000100110110100100011000010100001110 1
1010001000100011001011010000110001010101101111101111110100 00000011
1100110110010100100111010000010011001000100001100110010001 111000
1111110110000010000101100001010011101111100001000101111101 000
1000111010101001100010001010000100010110111100100011011111 1001
1000101101011110110011011010011000110110001100101100111100 11100
1100110100001110011110100110000011000010001010001100001111 0001
1111000010010010011100100110010110111110110100101000100100 10110

1000101010001100000110000101001001101011100111001101001001010110100111001100001001111100100111001010000100101001100110001110
100001001110011001100101111011111101100010100110101100010
1000011011001010010111110101111010001000100000111101010001000110010000111100010110000101000110001010001000101001101101111011010111011001110000101000101001110100000110010110110101110100110010110000001010100110101111101001100101010010000110001000001100010100000010100111000011101100001010011011110000101000001001111001001011011000111000001010011100101000110010111001010001100001010110001101111000101011001000111101011101110110011100101010001000110011010001101000000011100100011100101111111011010000110111110000100001001010001100111111101001000100000011000101011101101110010011000010101110000100100101111001111000110100100011101011111111001100110110011101111001001000100110111101110110110001101010011110001000101000010011001011001010100100000101001010011010000001010000011011111001010010110100001011110010000000011000000111000101010000110111101011111001010011100111111010000011100111100010111001101101011011111001011010000110000011111111011010110110111111100100011011110110100100111011001100100001011111100110100011011011010011111100001001000101000100100100110110010110100001011010011100110010110010000011110100001111110100010100100111001111100000010011001011100110100101000010011101101111101011110010101111101110011111011111110010001101111100010010011000101111010000111001101101110101000100011001011111011011111100011100110110011001111100110011111011000111111100011110001101111111011111110101011110000101111001101101100011010000111011000001110000001111000000111101011000101111101100110000011111100001000010010011100010111111110011110000101111001111100100100000100110100010010110001001100100010110011110010101011111001000100111101110101100101000100111000001010000111001001011001101110011111011100001110100011100010010111101000010010101011000011100111011100011000110011000000100111001010001100111010100111010010101110010010100010001001000010111100011010000001100000011000100100110111001110001011100000001110000010101100000100001001011011001101110101011110010000001110101100100000100110011011010001100110111101000001110010001101000011110111001000110011011111011010000010100101111010000011101100110000011100111101011110000100011000011111001101011001001000100011000110110100011100100001110011101011101000001011110001000001110010101000011101000110011111000000010011101011110010011101111100100111110001001111000001011100001001011110011100011010101100101100111101010100010000100011000101001101100101101100010000100100010001100100010011010000111101000100100110001110011010000010000010010110100011011010010111001000000100110011011010011111101011100001111101011110110001101110010010101101101110110100001100101101010001010000100110011100101101100001110110010111011001111101000011100011011101001101100010110011010100111001001000010100000100101111101001111110000011100000101100011011001101011101000000011000001100100010100001101111000010110011010100000100110101010011011111011001100

```
10110110111100000000001100100110000000010010011001000111001111
11010010100001010100111101000110010111111111101001110110101 00
101110000110001010110010110011000110110100000011101110001000001
100111100010011000011100110101111010011111011010110101100011000
101101111110010100111000001011010101100010001010111101101 0000
110100100101100010110100000101111010000110010111111010000010 0000
1101100110111010111110111110010000000111101001100101110100 0111
100110101001100100010010001000011001110110100110000010011001 00100
1111011100000101001001001111101101011100001001001011100 0010
110011010101111000101110000100110110101111110001110000101 1101
110000001000011001000111011000000001101111001111000011100 01000
101001110011100010101100100100001101000011111101010010010 01101
110011000000101100100000001010011001000010001101011101101 1000
111010010110011000110111000110111100011000110010111110001 1101
100100000101010001111011001011001000000111001100010001100 1100010
10011000001000011111000000100111010001101000000011001011001 1000
111000101110110011110000111101101101111011010110101100000 1010000
110010000111100101111111011001011100110010110011111001110 0000101
110010010111100011010100101100001111101001000111101000010 01011
1001111001000010110111100000101110000001011010111000010100 010
100001101010011001000001110001001101000011111000000000101 010001
111001000100011100000010010001000100001010111100001110000 00111
101000111001100010110101101011001100011111101010000111100 001010
110001010010110010110110101011101100100111111011100001011 00101
110100100001011101111011001111111000000100110011000011110 11001
111001000011000001110001010100011011101100110011000111110 10001
1001011110100111001100111010000100011110100001010110110100 111
1101100110101110100011110101011100100111100100000 10011
100101100100011100100000100110110011110101011011110000100 110010
111010001110111110100100111000000111010010000011010010011 11000
101000011111010010111001001000100100110011100101111 0000111
110111011111101110101010011111110110011111111110011111101101110
110110111110110010011111111010011000001111101000111101000 11101
101000110111010011001000001010011001000111110000010011001 0101111
100011001000100111110000000111100100101011001110010001101 110110
111010101100100010100001110111110001000110100000110000100 0101010
101000011010110011001100100100100000101111111010101100100 00011
111100111111001010100010011010011011001110001011101000000 00111
101001100111010100101110010011110110001000010111011001111 0101
110001010001001111111000100111011110001111101001011110111 11000
101011110000010111011000000001111010000101100100000000110 100000
100011001010111010001100011111010100111000001110010111010 010111
100110100001010100111010101100110100000010111011100011001 01110
111000001101011010000001010100001010001101011011000011011 1001000
101001011010000111110000010111101011010000111111000000101 101010
100011001101010001010001001111011011010011101100011111110 0100
110000011100011011110000100011110001100101011010101111010 111011
100001010110010010110001111000001101011100001111011010000 110011
111100111111100100001001000111101000011111010000111110101 001100
```

110101110010000100111011110001110101001000010010011001010011001
101101011000111100110011111101000110011011111101001101111011101
101100000101110101110011111101000011101001100001011010100001000
100110111011111010001100001101100010000000000101011011110000110
100101101100010000100111000110100110011101100101100111001000001
110011101011010111001001101111100000011000101000110111001001011
101111110000000110111110111010011000111100001010010111010
111110010111010000001001001111010000010011010000000000010011000
101001011001001101001110101011101100111110000100101001001011100
101111011101001011110001011000110111111000101101101110111111111
111011110101011101001111100110111110101101111100101110000111011
110000011011000001000110001001101010001001010010001010011011100
111001111000000101101100100111100000110110000000110111100011110
11010110101110101101111010110111100010011001001001011100100
101110010010110011011111000100111011101111110000111110001001110
101100101100000100100100101100000000000101110001000001101100100
111011010010100111110100000011101100011011010100011110001100110
110110001100111011101110101101000110011001011110000001100000011
101111111100111101010001000010100111100111011001111011001110000
111111001101111000111111000011111100100111001101111010011101000
110110011001010000111001100110011100101111100101011111100000111
111100100100101111110000011111100101100011100111110001100111110
110011001110110011111101100110100010100110100101111011001000010
111111110011001000000101011000100110011011110010110100001010010
110011011100101111111101011011111111101101111110001110000011011
101010010001100111111110001001101001111110010111110101101111
100110000011011011110100010111110110001001110011011010101011010011
100001110011110110011011100001011011000000101101100000011010101
111111000010101001110101001100001011110110100100001010011101110
110010011111111101001111111111100111111111100110110010110110111
100111001000011011110110101010000111100000111101000011110011
101000111101111000101100111111111100110101111111000111001000100
101110010100000011001100010010000010100001111100001111111000111
110011100110111010011111111001001111111100001111111100110111001
111000111101011010001100011101110100101110110101011110111001110
100001011001100110001100110010011001100000010011011110010111000
110000101110001111100011011010010111001000111001110101000110010
101001011011001100100110110110000010110100010110111101100010000
100101111011000101000110110110000000001001100101111000000111001
111001011001000010111100101100001010011101110111100110000001
101011001110110000000110100000000001000000110000011100100101001
110111010010000010001001111111000000010110110001010111001001
111101000101101011110011100000011000011110101011100101001011
111001000001110001010011100010110100111010001000101101011011110
101001100000001011011011001101111100000001110000111101000110011
100111101110011110111001111101100110100110001110001111001110001
111110001100010011001000100110111111111011101111001111001011111
111111001111111010011111011101010011010000101000111110001101000111
100001101100110011000010011000100010110101100110011101110010010111

11101110110010011100000110010001100000110011000100111000101101
10101111110001100111010010111101001101001011110110011100101101
10101111111110010101110110000010101110110010011100100001110110
10001101111010111111011000010011101111110110110111000000101101
11100110011010000010100100100101010011001001000101100100100111
10011111011000011111010000101011010001111111100100001011000000000
11011011010000110101010010001010010011100001011101111111100
10100001111011001001101110100010111011100010101011000001101111
10010110011111011100100011100100010101011001001111111000000011000
10011011111001000001011010101100101101011110110101111010110011
10011110110011010111000101100000011010000110000011101011001111101
11011000100000010011000100011110000010010011111111011001101001
11001110000110110010110110001000000100100101100000110001000111
11010101110001001001000101111100011101111000110011000000001011111
10111111010111100111100100101110001111101011111101110001000110
10100111101110000000101111111000010011000110001010110
11100010101010001000001010001000100100100000000010000000000000
11010010011100000111010000000100100010111110110011011111110111101
11110111010111011110011111110011011110101001010111110110001110000
11111101000001111011001101111101010101001111100000111011101
10110100011101111010001011101000111101101001101110100010001100
11111010010111111011000111100010101010110111101100111111010100
11110101011110110001100101111001011011110011111010010111010000
10100101110111100011111010100111101000100010011011000011000
11111110100001101101001001101110001010111000001110001010110100
11110110010001011110101011101110100010110101111110011111110000
10101100001010001111101000001001100100101010101100010000111101000
10100000001100111011101110100101110001010000000110000011000
10011111000011001111001011100110000101101110011100001011101101000
10010011111101100110101010101110110001100111001110111000010111111
10011000100010000000110000101000000001100100111101110010100011000
10111111000101001011101100111101101110010000011001101111011011010
11011000110110101011000100110001110011000101010110011001101111101
10110110000111101101000011011101011000110111110110100010101000
11111111001001010100110101101111001100110110101010111000001
10101111011000110111000101110001010001011100010000111100100111100
11100001111111001010100011101000010000111011001000011010000
10101100000011111010000110001010100010110100111101000101101110
11110110101100101110110011101111100011111010000101111100010011000
10111010000010011011110011001101010000010111011101101001100011000
10011000111010000100100110101011010100111100010110011111100111
10111001000101011011110100010011010000111101110110000110111110
10101111100101110011001000010011010010110001101001000101011111011000
11110101110110010001110110100010101110111101001011000011000110100
10011001101000011101111110101010101010111000000110111110000110000
11100001101011000101100111000010001100000110111110100110100010
10010010011010101101000101110111001100110001101011110000100001111
10011111111100111001001001001001101101111011101110000100111100111
11101111101000111000001110011000100101101011000100100010000011000

1000101001111101001000110110010101001111101000010100100111110101
1100110111110111011101001111100100101111000100110110101011001111
1100000111001100100000110000010011100111100010011100000011011001
1100111010000000011010000000101100100111100111101111110000000011
1100000010000111101010111011111100111101111100010110111001010101
1011001001011110010111111000000110110100011111000001101101010100
1000101100111100101110101110000110110101100010011100001010001111
1100110110000001010101100000001110100001111100001010011111
1011110001011110101011001100010101111010010000110111001011101111
1001111000010110111111100011111101001001011001001011101110110000
1110111101111000011011001011110110100001100100111011100000
1110001011011001110000101110101110100110100011001000100011100100
1110110110111100010111001001100001010011100110111010101001100
1001011101001101001011011111011001011111110001011011010011011100
1010011001001111100100001101101000001110100101011011000111
1101110000011011000000100001010101110100100111101100000110000101
1010011001111001000100011111010001100110010101101101001100010101
1001011001001000100110010001100001110100011001111100000100111
1011110100010101100000010011110000011111101000011011111010011011
1011110011100010011111101101000011111111001001101101101000111
1001010010000101001110111101110101111100100011101011110001010
1111011010000001110100011111111000101111010000110000110100
1100010010111001100010110101101000110001011111101101100110111110
1011000111001000100011001000010000011100101000111110100110100100
1011110111011101011011001011010001000000010100011000000011001
1011111000001111111010001111110101110111110100110110101111111101
1101100110000011000001101111100011100110110001001100111011010
1000010111011001111111011100011100011111101000011110100011100
1100010100100111011001111111011000100000001100100000001111000110
1111011000000111000000101110000110010111110001011011010010111001
1010010111101100010100011000001110100100010100111101110100001011
1111000011100110101111111000011011011010011000110010001001110000
1011100000100100101000101110011100111000101000111111010011111
1100010011101000111010000010111001001001100111001001110110100
1100000111111101000110011110111111111000011000011110100010000100
1100011010001101011111100000111011111110011010000111100100011
1110000001111111101101100000011000001100000001001000111111010
1101001011100100011000110110000100110000001100100011011011010
1110011110110111100010110101100111110001101110111111001000000000
1100011110001101111000110100101011011010011010000110001101000
1111011100000111111101000011011110010001101110011100010111000
1110100010000010101101011001100100101100100111001000011011100110
1000010000001010111011001000011100101101101111011001100111001
1011111001110111100100011111101011100110111001110100000101100000
1001100111111100100001010001101010110101101011111011110110
1111001001101100000000100101110010011100011110010110011100000011
1100100110010011110001001100110101010000001010010011000001110001
1101111101000011001111000110101111100011100101111000011011111111
1011100000000101001100100110000101110110000001111000101101100

100001001011011001101010111100101011110010101111010001111110
101001111011000111101100011110010001111011011011001101110110011
100101000001110110011000011101110101110111111010001010100
110000010001101111011011001000011000100101110011111101100111111
111001000000111011001000100100010101000011001101101010001110001
111000001101000110000101100001010111010011110010101100101001101
101110111001110111110010000010010011101110111000001110100101101 0
101110111000001000110100001110010001100100010110101101111 00110
101100000010001110110001110100110011101100001101100110101011 1001
1111110001110101000100001111100010010111011001101001 00010000110
10001100111111100101010100111101101011110011011010010010 0011101100
1111000011011100101101101111011001111000110010000010010 111100
100100010101001000010000110110011100011100011100010110011001000
11111010011001101101101011111110111011111111001111 11111100110
110110110001111110101001111100010011111100110111100101 11110110
1001110110011011011001001001101011000111111110001111 11111100011111
101000111111001001110011011110110110111111010011110011010111110100
11011000111111000111111101011101101110110011100110000 100010 01111
101101011110011011100101110100101010001010011100011111 110001
101011010101110001001011000100110001101100110000111100100010
101000000000010100011011001001101010011011101100001000 11011111000
10101011001111101110001000111001101100101001111000010001 0101100
111111101011101010111100000001011100001010001011100010010 0111000
110110011111001110010001001000110010111000010011101011100111111
100010111000010000110110001000111011100111000100010011110000111
101000111111110010011011011000110010111010110010001001000000
11110011100100100110000010000100000110010011011000001010111 1
11001111101110000000111000111000111110011111111001111111100111 1
110111101110110010000100001101101000101100000100100010110011 01
11101000110000000111001010001001111101111101101001100000 1100
10001011101100111000111000010010100010110000011001110000011100
1110010001100100111101100000011000001010011101000011111 01000
10001010001100111011010100110011011110111110010110010100 00111111
101000110011001110001011011010001111010110010110111100111 0011001
1010000010100111011100000110110100110011000010111101111 10110100
1000000010001010011011111111011101100100110010101010111 011010010
1001111100001000011100010100011100011100000110100111 10111010
1101101011111011011111100001001100000010100100001001 01000101100
10010111101100011001111011000100101011110011010000100 01110110
100010000111000101011100010001100010100100000010000 00110
10000101010001100101000100100101101101100000100011110 10000010111
1000101010110011110000000010100000101011100111100111 0100001001
100100011011001110000001100000101011000010100110000001001011
110001010100001001100110011100000010100001101011010001100100111
110011011001110111011111001101111011100001010101001000100 1000
1101011001100111000010011001001001011010000101000001000 110011
110001110010100110100101000010001111011101100000111000 0110010
1100111000010000110110010110110110010110110101000010 0101011101
1110100001010111001101011010110010001011010100011101 011101010010

101000111100101000000111001010010000110101101001010100001010001
101001111000000001010111100010001101001111011011000111000100
111100100010100100011011101001011000010101010010010100011110000
101011100000010001111011111010101001010101101101001100000111100
100000110010101010101010101000110100100100010011110001000011110
100011001111000110000010101111110110010101110000110001110111
101000011101110100101010010111110001011110000101111100010001
111000111110111010010001010001001001110000100011111010011001
101111111001100011100110110100010010111100000101001101010101
111100110110000001110101011101000110010010101111100010111111
111011110111011111011101110011111100101101100111110111011111111
110101000110001011101100010001011011101000100111111000010101001
110011110101110100101001000111110100011110110001111100111000001
111010000111010000111100000001101001101010000010110101111001100
111011100010001100011001010111011110101101100111110010100000
111011001001000011000111011010000001011000001101001101000000011
100010110100111100101000110100111101001010011101110101111011101
101110100110010011111101110011110010001110010111100111100000110
110001111000000010000011001111010001110000101100000010100101001
100011110100111010101001111101000011100011000110110100111100000
111010111000001101101110010010011011111001000101000001100011
111110111000001110000010000011101000010011000110011010100011
101011111110001011111000111111101000011000110010000010001000010
101111101000111110101111101001010000001001001001010111111111011
111101011010100000101001100100000101011011001001010011000110000
111100010111010001001110101110110111100101100011000010100111010110
101010011100100010000100101100111011011110111111011101111110111001
110010001010101000001001010110001100010100010011001101111001110111
101000101000000011001000111011110000100100110001000111010100
110011100000011100010100001110100010010101000001000100111000101
100011000111100010101111010010001011001001000001000110001010000
110001110000110011101111111101011011110000001011000111001101011
100111111000110000111110110111111001011100000010001110111101110000
100001110000111101011101111011101011110000011101100000000110110
100011110000111110111011011110100010011000001100011111110100001
110111100010010101101101101000011111111010011000011000110001001001
101000010101100001111011010111111100110010100001001101001110110110
110001010001100001010001101101000000110001011101110110011001010101
111101111110111010101100000010111000000000010001001011010010101
110010001110011011011010100111000000011001110110010101011101101
100111111011001100001101111000000110100100101111010100000100011
101011101100000100111011110000100010010110011110111001000111000
100000111101101000111101011100011101000100101000111010000110001000
100111100100100010100101100110101001001110001100110110101001110111
111001011011000000110110111010100011000110001111100001101
100110010000100100100111111001111101111111110001010011010001011
110000111100111001011001111100001001001001111011111101011101000000
100011000010100011000111011000111101100100110011101010011100110
111011000100101110100000001101000001011000000111001110010010101

110001100110110111001100011011011010111010001111100011100011110
1000111100000101010000001000000111001001011001000111010000100
1010010011011011000111101111101001100011100101110000010001111101
100100101100010010010001111000000101000001110000010010110011000
1011001111100000111111101010011101001000110000000111011001000101
11000111000000110100010100001010000111000011110000010011111000
1011110001110000110110001111111011001101011100100101100101010100
10110111100000001001001011010111111001110100001110011111010
1111011001110001101011001001001100111011101101111101100010001100
10111111100110111100111001000001010010000001000101000011011010
1011011010010011000010010000111100000100101110110000101100001001
101010000100000011001011010000110110101011100000010110011000000
100100010111100100010101110010010111011010010011110100001101100
1010010001101111011111000000101011111110101111010001000011011101
1011100101100111010011110101000001001011001001100111011000101000
1101000100100011001011011010000000100001111011001110100111100110
101110010001010001101011100110111100000110100100100010010110111
11010000011001000000100101001100100001000100000010001100110010
101000010111000110101101000101111110100011111010001101101100010
1110110001110111011111011111100011111110000101100111011000001111
1100011100111110000101011001001000111111111100110101101000000011
1000100100100000110011001110111101010110010010110100110010101100
101011010010110011001000011111100010101101110101010010110000100
1001111001110110001110110111100011011101000100001101000001011111
1111100110100000000101001000101100110011000111010001001101011100
11101010000010001101110010000010111001000100011000100100111110
111110000010101000000100101010000000100010000110110000100110100
100100000001001000101111010010011000000100001111000000111010
10110101001001111000010101010001011110111101110101110000101000011
1000001110011001111000100110111010000011001101110000011100000
10010111111000111101000000110110110010000011001001011110001110
11001001111001000111111011000111110011011010111101111111100101111
1100101011100101111000011110000010010011110110100001000011001100
10001110100011001100100100101101011111110101111010010111001010
111000010010111001001011001100110100010011111010011111110100110
1010010101011110110111110110111110110011110000011011011101100101
1001101010101111010101011111011100010111000010110110001001001010
111011101000011010001011000010000000100111010010010010001101100
11100101100111111000000011011010001111011100011011100001010001
11010000001111110001010011100000001110000011000111000101100101
1111010101001011110000100000000100000111011100011010000110111
111110010110111111100100110111111001111101101010001110100001100
1101110110001001000011111010111100011101100010101000000010000101
101100000001000101011100110011011001011001000110001000000010101
1011110010000010100100101100011111110001100110100000101100000011
10110011001011011011111110111111110011001111111100011010101010101
1001000001100010110110010011111011000111111111000111111001110011
110100011111101110010111001111100101110011001111011000010011001
100101101101110110110101011001110100110111101011100100011011001

111000101111100011011100011011001100100000011001101000100000000
111101010000101011111111011000111111110110001010000100000011
111011001111111101111110010001110111111011101010001101010001010
111010001011100010010010011000011101100011000101111110001011
1111110110100100011101111111111111100111110101011110010000111
100101111011110111111000101111010011000000111111100100100111011
110100010000011011001101111111100110111111110001101111111100110110
111100001001101000010111000001101101000111001000001111111000
111010010101011101001101011100100011100111010011101111101001011
1011011111011101111101110000011111010011010010100011001000100100
110010011011011100110011011111111101011011111111100110011111111001
1001110110010111101110010111011110110001100010000110011001100110
111111111111110111001110110011111100100000011000101011111010
1111111011001010001100110100010000110010110000101110010011111000
110000110100001101101110010001101010101111110110101111111110111
110000011110110010110000000110101101101111111100100001111011011
111001000100110110010110100000011011001001001100101011101100000
1111100010101001101100001111110000101010000110100001011100011011
1101100111010001101101001011111100000110100111111011001100010
1000000010011000111010000011000001101110001010111110100110110
1011011000101101101011110110100110000111010101001111000011001
1101100100011001100110110101111011111010010100010100110011001100
1011101111011110000010011110100100011010111001011011000001010101
101001110011000011011001000100011110010101010011010000011111
1110101110001110111000100000100001101011010001101000000111100
1000111001110101011010001100110000001001001011011001111110110001
1001001111101000001111001000100000111000100001111010000110111100
1010110000110011011110110001010000101000110111101000001001111
1011111101011011010001110101110011111101110111110110100110011110
1101010111110110100111110000000111011000011011110100101111111101
1101101110000001000011101111101100000101110100001111100111001110111
111000010001010011001001010111100110100001100011000010110111100
1100001111000010111000111010001111101100100101100000101100110
101101111001000101111101010000111101000111001111010010110110111011
11000011100000001010010000011001100001001100010001111100000
1001001110000101010110011011010100101101000001101110001111000000
10000001100011001110110010011001110001001101011100101010011001001
1110001011110110011111010000001100101011101000100111000011001101100
1110100001000101000010110100010010110110010001110000110000000
1111010010111000010000100011110000100111000000100101111101
100011001100111110001000011111100011100101010001010011010111111010
101111111010010011100001100001111110010110001101101010111011100
100011100011011000101000010111110000101111101001101110101001001
111110011100010001001001100111011101000110101100101100010000101011
101000110110011111110000010100110110001110001100110001000101111
1000011110000111001011111011000100001100100111011111100111001110
1100100101100011100000101010111011000010111011000110111000011111
1111011000000000110011101000011001110001100110011111110100101010
101101010110001110111011111010111011000000110001000011100010011111

110011111011101000110100111000011101110001010101111110000101
1110110110011111101010001011001001101101000100101100110010111111
101101101110110001110111011010000010111010001010010111000011111
1010001000010000011100010010111100001111101100100111011100001
110010010111100111011001010001010000011000010111101100110011000
100111111000110001101100010111110111111111011100010101101111
111101111110001010110100001000100001000001110100011100000111001000
111010001010100101110000100011101111001011001110011011100010101
111101011001100000100001101000101011000000110011100000001100000
111110001010110100010101111001111010101101111100011101111000101
111111101111110011100000110110111111000100010111111101101000111
110010001110011011010110111100101111101110001001011110111111110
101101101100010111000010100011110001000010101010101010110011011
10000001111101110011110001001101001001000111100001001101100100
110010111110011101100100000100110001001111101111000100001110001011
1011111001101101011000100001000011000101000001111110001100101
1100111001110011011011110010110110110000010101101110010001010001
1001110011110111100000010110010101010011011111001011110100000
1011000000111001001100101101010100100101101111001000010111011
10011001001001111111110000000111101100001110110100100111011100
11111111001011110100100110011001000110011101010010001111101010
101111110110100100111010000010110000011011110100000111111100001
1000011101101001111000001000111100100111111011100011011111011
101100000101101110100110010001101100110110100111011001111100111
10101110010101111010111010110001001110100101110111001110011101
1110011010000001100110011000010010101100110011010000101101101001
11001001101000001011000000111001110010111110101000100111000100
1110111100100111111110101011101101001101111011100111101111100000
100110000111010010111101111110110011011011001011111000001101011
11111110110111000001011000111110100111111010000001110011111011
110000100001011110101011110111001111110111111011100111100100101110
1101001110000110111001011110111111111011001000000111001011100011
100011101001100011001001101111001111100110000001100111110101111
110001111001010111010111110001010111111101110100101101110010011
100000010001100101000010100011101100110111011001101011011011010
100011101001101111110100010000000110010110111001011001111100001
100001101001101000101001010010000101010110011110011011111000011
10110100001101100000101100000010111101110111111111000001101011
101011000010010001010010111010010011100010110011010001110000000
100001101111000111111101001111100000101001011110011110011001
111001100010011110011000100011000010000011000111110100011011
11001110110101101111010111111101100111111111011000100110001110001
1110111001000010100000010100100100111000101111110100001
1001100110010101100100011110100011011001000000111001000011
110011100100011110010111110000111011110000100101110100000011111
1101110010000001010101101001000011011111101110011011111100001111
110000001101011000000110000011001010110111101000110011011100
101000111001000000110001100111101111111110100111001011001010110
11110111001011011111110101111100111001010110111001010101011000

11011110110100010111100000100110100000110011101101111011100101
11000101010111010001011010100011000011011111011011100001000000
11101001100100111110011111111010000010011001001110011100100
11011000100010000011010101100011111001010110100010111111101001 00
11001000011100001101110100011111011100111110000010110001110110 110
11000010101011011001000101100100011010110010111011111001010101 01
11110101011110110100110111010001110111101010001111001000100010110
11011011001011011011001110010101110101000000110011110011 1
11101101011110011110100111010000111011010110110001100010111001
11010011101001001000111000100100111111110101101101000110101001 0
11010111110001101111000010110011000100011000011110000110110000
10001100110110100001110000111001000100111100100110101110010001 11
10010101110100011010111101100111101101000001100111010001001011 00
11000000011001110010111110100101011010001011101101000101011 00
11000011101101011001011101001011001111110100111001111011010100
11110010000100111001000010001111100010001000101010110111011 111
10001101110101000001100111110110111111110011110010111111111001 1000
11010001111001100011100010010010110111101000110110010100111101
11011011001001000111111001001110010001111111110010000001101111 0
10111010101110100100011100010010101101000010101100100010101 00
11111110001100100110000011010001011111100111010110110001000
11000111111011001101110000010101001101100010000001111101111110 1
10001110111100001100111011101111100000001100000010011011111001 0
11001011110100000001100000001110011101010011101111000111111011 0
10100010010000101001111101100000011111111010000000111010000001
10101101111101000011111011100001110000011000111010000000010111 0
10111101010011100001011111100001011111111110011111100000011 00
11001000000010001101110011101011001010000111100100110000001001 00
11110010010011001110111010000000110001100010111111101011110100 101
10111000001000100100110111011100111010000010100111000011111 01
10111001110000101110111101000110011101110111001100000001101100
11010111110100111010011100001011001000101001011100111000000000 100
11101100110110011010010001100011100000100010001110100110111110 11
10110110011100011000000011100110110010000101110000101110000100
1100111000011100100011110000011110001000001001110101 01010001 10
10011111110011011000001110110010000011011110111010010111001 10
10100110011100101111001110000010101001100111111101100111111 10
11111110110010010011011001001001110010110010100001111110 1000
11011100110101010001100111100011110011011011000111001000111101 0
10001110110100100100001010011000001110100101101011001 1001011
11101010010100100000001100001010101100010100111111101101101100 0011
10111110011011100001111111100000111111111111101111111100110111 11
11001000111111000011110001001100110111101101011110001101111111 1
111111101111111111001101110001011111010101111111111110011111 10011
11010001100100100111001111101001101100101000111111110100011 11
1101000010000011110101111001101011101001100111110011101011100001
10100001011010000011011101011000100001101010100000100111011 10
11110101001101010010010100011001000100001000110101001000000010 110
11100100100100011001010100000010000001111111010000000001001010

101010110011001010000100100101000101011010100011011100100000010
111011110101110010110100010010010010111010101110100110110110000
100100011101001111011101011100100010100101111011010000111000000
110100100011111010111101011111100000100110110000010010110000
100100010011000001010010101010101010101001000100001100111001
101010001001111000011111100001110011001010001010010111001111
100011110010001000011100010100011100010000100011110110101100001
101010100100000010000111110011110000100000101000010010111001
100010101110111111111010010010100011000100111011111111100
110100000001011001000000001001101100001000110111100001010111000
101110100000010001111101001010101101110000010101010110101011110
110000110101000011111000111000000011001010111000110011101001100
100010110011101010011010100100100111110100110011111011111100
110011100011101101111110111101010100110110000010100101000000010
100101010101111001000101001001001011111011110111101101111101111000
111101000100011001111001010010000010011100011001110000100011110
111101011011110101100101001010000010010010011110110100000011110
101010110111110000110011110000100010000100000100000000101010
101100011111000100011011101000010100001010000100001010001100100110
110001000111001010010111001011111010000010001111000110110111
100100100100000010100001101111000110100101000000111000001100110
110001011110100110000001101001011010101011111011101001010100001
10011111110000001110101000010111000010001100111100111101000010000
100111000010000100011101110000000100110000010100101011110001
101001110101101001101011010000111000101011011110000001010111000
111101101111011000000111111111011111100100000000100011111010011001
101011110111000010001100000111010110010101101011000111100101110
101000001101011001011001000111000001010011110100001010100010011
101100100011011110111011110101010000001100111110010100010100101
111001000000000010100110110101011001101100111010000100110010110
101000111000010001101011010000010100111101110011010111100110110
110001110110010010011010000011000000101110100011100110110001011
110110000100010010001010001000101001100110110100001101100000000
110110110111110011111110011100001011110000110010001001000000011
1001001001011001111100111001100011000011111110001111000011111
11010010011011101000010111111100111111100110011101010001010010
110010011001111111010011001010000111101111000000101011101111110
110100001001111011011000111000101001000111011101101100101000100000
100011100001100100001110000011000000001001001001011001011011110
10100101100001000111001101000111111101000011100110001101001110
111011111100110100101000001101000010000111001100001001110011000
111001000111101000111001111110010000011011010010011001000100110
100011001101110000010100100111001100110110111111010001110110100
100011011101000111111100000111011001001010100101110011100011001
1000001010101111010000001001000011011001001000111010001110010010
111010000111110110100110001100011010011111101001111101001110110
101111000011101001000101011010110101000100011001010011110111111
100001110011100011100111001110000010000011100010110000000010010
1110000010101110111111010111111110001000001100010100011110110

11101000101001110010111110110000000101111001110100011000100
10110010101111011010110001100010000000110000011101011011011100
10111010110001110001110110100000001101000010100110111101111101
10110011010000011111101111011101001101111010011001000011001110
10101100111110001110101100100101101110010000011110000100011011 0
11000111110111000011101110110000011000111001001011000111010011 11
10001001000000111010101011010001100001110101111110101111100001
11111010011100111000111100111010110110001011000001101010011110
11001000001000110110100011010000011000011001111001101100000110 1
10110100011011011000001001110111100100010100111100100100000101 10
10111111101101110000001011010011100101000100000010001011100000 01
11011010110101101000110011110010010100101000000101000001100100
11001111101110011001110111011100110010011011100000101111011101 0
11101110001001010001101110001110100011000000001011000101001001 00
10011100111100111110011101000101000101100010110101000001000110
11100101000110101001011111100101101101001100001010111010000 0
11100000001110000111000110001011001010101001011100000100001100 10
10010010101010111010001110110010110011000010111101000111110000 00
11110101001100001010110011001100100110000000100111101101010010 0100
10100011000100100011011100100101001100110110011110100001100110 10
10000011011010000000110100001111111010011100111101001100000000
10011000000111110100110110101001110000010110100110110101101011
11111011011111111001001001000010011100101100111100000011100100 1
10110011000001000100010101011110101000000010000001100000010011 11
11001111101000110101000100100010011110100001010110010000010111 0
10100101110000100111101111100101101100011110011011001000000001
1000000011000001111110000011100100111001111010001101000111111101
110110100000011011101011100111010000001000101010010110100001101 00
10100111001100110000011011111010010100110000101011110110010010 1
10110100101110100100011010011000000100111101011001000010010010
11101010000101111001001111111001111110011000000101110000000001
11110011010111010110011110110000011011001110100110001010101110 1
11110011011111110010101111111011000011101110110001011010011011
11011000101000001110100000111100010010011111000010111011 0
11100010111001001000110111001100001010000011000000111100000001
11101110111101101011011001111100000001001100011001100110011011
10001111100000001100000001101000001010100011110001011110111 00
10111111110100001101001110010110101110000111001001111010 0
11110100000101100000110001111000101011110011110001111110100111 11
11101000100111101000000100110010010000011001010110010100000100 0
11110000010110001100001001110000011001001010101001100110101 1
11011010111110011011100100111111100111101110011111001111000001 01
11010011100001100100111000101001101100111011001101111100011011 1
10001010111111000000101000011101000110000001011001011011001011
11111100000110111000000101001101001100101100111101101111001100
11111010011100000110100001010111000010011001000001101000011
11001110111011101100011001111000101111000110010001100100111101 0
10000011001000110010001011000110110110101110010010001000011001 10
11101110110011111110000110010011000010100101101000011011011110

1000100100100110101001011001100100111000001001011011101111110100
1100000100110001000000100111011101000011110111011100011001001110
10001111101010111110000010100000000011011011000011100001100
11111010001111000011001110000001101000011110010000110100
1111011001110010111101110011100010100110001100100100000011011111
1010001010100100100000110010011001100111111110100101100111110100
1110011000010011101110110000110011001001011011100011011100110011
100101000010010100001110011011000000001001010000110110010
1000111100000111110000101001110100110010110010010100011001010101
1111111101110010110011010000110111000001000110011001100100011
10001000010100111101101011101111111011011010101110000101111110
1010010001000111010001110110001001100000011001101101010000000101
111011110011010001101101000010001100111010000110000001100101110
1101010011011010000101101000011000010000101001000101101100010011
1010011111110100110001110110011000011101100101111111001110
1001100000000011110001101110000000011101000000110001110110
1110000011111011000001110101110111101100110100000111110010011111
1000001010010100111010000001011000001100101000011001010101010
110000101101000110111101110110011110100001000010100010011010001
1000000101111100011001110110011111000000000111101100101011
110000110001010000011011100111001110111011110111111000110011110
1010000101110011001111101111011010100110110010111001101100110111
100101001111110011011001111100101101001100000000111001000000001
110010011110110011111100100111011101110010110110011011001010111
110001001000011100001010011000011001100100100011100010110100000
101011100110110010111110110000001110111101101001111110111110001
110000000111101001000001110100011000001100100110101100010100011
1110111100000010110011001001100000011010011110101011000111111
111100011011110110011011000000100000111011011010100101111010001
1010111011100110110011001111110110011111000100111111110000101
100011110110001010111111101010110010111110011011101000111000
11101000011111110010111110001111111100111111001000010000101101
1110101011111011110111111010010111111110101110000001110001011001
110001000010000011001110110111111000101111111111000111111110011
101100000000111000100011001001101011001000111111000101000000011
110110110000010001111000000001011001001010111010000111101110
1010100100100100100000011111101111000011010000000001001111111100
1111001011011110000100110111100011111100010011111111011001111
101100000001100110011000111101100110000111000000010011100111111
1011111110101100111110101001011001010011110010101000101100010
110000001100110001011110011011100111011101011110010101111101111
1100010011100110111011011011111111110010111111101001011111110010
10110101110101101100110110110101000011100101101000111100010010
1100001100101010101001110100110111110101011011010000101000101000
101010000010111001111011001000111110000010011011010111010000
100110011110100100110011011110100010111111000101011101100011100
11111000111010000001010110001001011010101000011000010000000011
1001110001000110011111100100001110110110010110000110001001111010110
1011010011101000100101110010101010000011100100100001111011

```
1111101010100110100011100011101001100110000010100001111100101110
111011010011101000100010111000101011111100111001110001011
11101111101100011100100000111000111110000011011011000011001111
11101110110000000111101000011100011111001011101111110010111000
1111101011101110011010110010001111011111100110011111011011
11111000010111011010011010111100010110110101011001000001101101
10010111011101101000110011110101110011011010101110010110100001
10111000110010011101011101101010110110010110110110000011011011
1000110100110001001000011100011111110101100111110000001011110
10010101100011011010011110110010000101110001011011000000010011
111011111100110011011000110000011101000111111111010011000101110
10000110011001100101010001000011111111110001100011101000001111
10001110011011100000100011111110110011001001011110111111011001
11101101100111010100101110110001011100001010011110100100101
110011000010110001010011011010010000111011000000011001000100
11111110000101110000011000111101001010100110110010111100111
110111000011101100000010011010000101011110000100100110101110
101100111110001101111111101001101010110011110011101011011010
10010001101100011010101110111111110011011000111111011111101110
1000010010100100001000001101101101101011111101101000010110000
11110000001001110011011001110111101111010011011110000101110000
1001100010001100111100011010111000010101111000101111010000
110110110011010001010100000000010100010001100100110111111000
11001111001011111010011011110001110110010110110101001011110011
101111000001001100010011001100011110000001111101111010110111100
100001100010101111110010011111101101000110001000011010010111
1101011110111011110111000010011011010111111011100011101011011
10101001001001011001101000011111011000011011011111010010010
111011011001111011100001010001111110100100110011001010111101010
11100000101100011001010100011111111100001111101000100111001110
110001110001001100111100000011011101100011011101000010100111000
11100000011001111111011001011001100001100010011011111110010101
1100110110111111111000001001101001001001101001010110101110101
111101100000111000010001101100110000111011000100110000001001001
110111100000011100110101110110011100001011001111011010101010
11111011011000100111100000100100111110111111011010101001011
111110110010000101111010101001011110110011001110000010001101
1011101001011001111100101011000100001111111101101100110011010
101011000100001000011011001100111001011100100011101110110100100
10101111010000011100000010011010000100101100100011111110100001
10101100000000000011001101111011000110101110011000111111001
1001001010111101100011000111000011010110110110001101001101110
1010010110111100001010001101100100011111010010100011010010011101
1010110010001001011100011010001000000001001100101100010010001
1000100100010111000100111101101001101000110010101001010110010010
11010010010101110010011011110110101011001111011101011100101000
11111010110001010000011101100111011000000001001100100011100110
11111001110111101000010000111101111011000000001110000001001100
1101101111000110011000000101001110110010011011010110111111001111
```

110110100001000010000101010111011000111110001011100010111010010101
1100011010110111000000011001100011100000110000001101110010000
10110011100111101110100101011100111101011110100001110111011010
11110000011110111000001101101010111100000110110000101101101
1000001000011110010011111010111000110000000101110000110111111010
110011010111011110000000111101110001111000000100011010010100110
100001011100100010001110100010010111010010011011010010100100
1001101110000011110111011110001000000110011101110110111001110100
11111001111110110111110100001110000010011100111110101001111110
1100000011000110110100010110011101000001111000100010100000
110011011010100000000110011011000110111011110100111110001000
110100011010000011100010011011100011110010100110011111001001110100
10000101001101001000000011011101011001001001001100000011101011
1010101110110010010000110110001000111011010111111011100111000111
100010110111011000111011110000101011101111011001110100110001000
11101111101101111101000110110100001001001000010101111111011110
10011001000101110001001110111011000011110010000011110100000011100
101100111100111001000110110010001001111000000101001101101000000011
1101000101101000011101000011101011011110110110111110000001010011
11111000110001000010000110001001101100000011001111101000011011110
110010010111110111110111101011100011110111000111011010001001101001100
11101100011101111110000111001101101000011100101010111110001100111
100101000010101101110111101001010110011000011101011110111001010000
111101101101011100110001001101111011000111100010011001111100000
11001100101010110011010101111111001000011100000101110110100010011
1011100000011000110111101011000111110010001111101101100101111
110101011110010011100111001011110010010110001000000011100111101
110001011101111100111001110100001111101010110111111010000
11001111000011100000001110000001101000010100110010010011111110000
1110100000000001110010000101110100110000011100010000011111100000
101000111111011100111000111100000001011000100110010010101110101
11010001011101101100001100111001001111101000111110111000001111
10001111000100111111000101110111000011101011100001101100100011
10001100011111101100011011110110100100101011111010110110110100
110110100111000011101101100101010111101110001011101000001101110
10100101110011011110001000110000010111101000101110100001111101
10010011111010010111000110110101010010110010011101001000000110000
1011010010111111011010011111111000011010010110010001111110001100
100000010101011101010110111111000100011101000110000110110101100
110100111100101000010110100011110000101100111101011110111000011
110101010010110011011111000011011101101010011000011110001001111
1110001101011100101111000110000010000101110011000011000001101100
10001001100000110100101011000011001111110011001111101000110100111100
110111001010111010011110100111111000000101001011011010100000011000
1101110000001101100000110110100001110111111000111011000000010
110110011111010011011110100010111100010001001010110011001110011
11110000010010111101000001110100111000000000011000000111110000
1101101101101110111101100000011110000001110111100111100110101111
101111100111011111101010011100001011111111100111111110010011111

110010111101111110011001110001011111011100110111111100111110000
111101000111110011011001010111101101111001010111010001110111111
110111011001011010000010101010100011010011100001111110100011
100011111100010100100010011110111101100111011100000001001111110
100010010010101111000110001101011000100001000111010001010011000
111110110011110110011110111111101001010000110000000110000010000
101000001101100000011000110000111001000110100000001000010011010
101001011110000000010001011110111111111100100100110000011100
111111100010001001001110000111110110110001001000000111001111011
100010111110001011110111101111100110110110011110111001111101100
101110111100001110001001001011000111101100011110110001110011011
111111100011100010000000001011011101010100110010101100001011101
111011001111100011101110110011001101111011001101100010011110000
110000101111111100111110111001111100110111001001111110010011111
101011001100110010111011111111110011011111111110001011111110011
111001111010101000100011001100111001000011011001101011100011000
101101111001101100101011100110011101111011111110010100010010010
100100010111000111010010000010101111101100010011000110011001
111000011000000111001100000100001010101001001000100111000010101
110110111001010000100100111011110010000000100011001100111100000
101011001010000000001000010001010000100100100100001111
110110100011001111110111001011110001010011001101111011101101111
110111101101100111001100000011110100011000101100001000100111011
110011001101111010101011010110111100000110000110000101001001000
111100001111011001000000101000101001011111011100100010111111110
100101001010010101010011111010011111101111010001010000101001010
111000010001101000000111101000110110001001000001111100111000
100001110010110001110000110011000101101101000001000001100100100
101111011111010101110101011110101100001001100011000100001000001100
100100110011110110101100101010001100111111101100110001111001010110
110001000001100000110111011001011011111110100101000010011101010
101111110110111110111110010101001111101001110101001110101110001
100001100010100011100101110100100011111101100011111011000111110
101011111101000001100001100000011110100011011101001001001010100
101010101110000010010000000011001110110010000101001000010100010
111011100010010101011101001100101001101100101101000011110000
110110101101111100110001011011000100110110010011111101100111010010
101110100011001111000001110001110101111001000100000111000101001010
111011000001011010100000100101111100000010011000111111111010110
111110110101100110111000110110000011001101111100100101000000
110010000001001100110011111101011110100111100001111000010010010
101100111011000100101000011010001001000000010101010011010000100
111000111110010100001001111011000101000100000010110110100011000010
110110100001010101000001010000011111100001111100001001110101000
1001001100000101101001101110010001001001001001000111010101000110
10000101000001110001111110100101100010100011010001010010111111100
110011111101001101100101101101011110011001010011011001011011011011
111010000001111001000111001000111100011001010001111100000010100
111001010011100000100000111111001100101010010110011000100010101111

1001101100001110111101100010101011001100000001111101000101 1100
1100111001101010000100100111000000110011011011001000110101 11101
1110010000000001001001010010000000101001100101010000011011 01000
1111010000000000110001010101010110010001001100000111010111 011100
1000000000100011000110001101111001010010111000110111000101 0000
1110011110111100000101011011111000110010100011010011010001 00100
1101010110111101110011001011011110011101001010110111101111 001111
1001111101011110000110001100110010010011011001110110100 1101
1101011101110111111100010100011001100000011000010101111 01111
1000100000111111011001001111110010001000010001101011010 110
1001000110111100100011101000011111000000010000110011001 100111
1011010000000011001001001110011101001100111011001000011 111100
1111010011010110011110111111101000011001101010110010110 01101
1101011000100001000001011011100101001001101010100110011 00000100
1010001100100010011111010001011100011100001001000111001 01101001
1010011110100000100111000111011000001111111001110010010 11001110
1101011101101100010100101111111000110111001000011111011 101111
1100011010111000101011101111000100101100111101101010011 1101
1011100010010001101001011001001100000000100101011001101 01010
1000011111100010101111001000001010001100000111100001110 01101000
1110110100111001100101111111000100100000001001101011101 11111110
1010011100000001000110110011011011110010110111101110111 1011011
1011110001011011111101101011101011101011100110110100100 00000000100
1110000101110010010001100111001101101101111110000111100 00001010
1111100001011101001100111100000001110100101101111011010 111010
1101111010001110001000001000111110101011010110000000011 1100000
1100110000110000000011101001101100000001011000001010010 001110
1110000101010011001000111000011110011100001110000011111 0000011
1110001101101000001000101001110101110100001110001010101 11110
1011101101101101011111101110110111111000010111111000110 10101001010
1100100111110100101001000111000100001011010010101011011 01011111
1111111100010100110000011101110110101001001000100100000 11000100
1100111110110110110111110000101001011110100101111010010 11110
1011110110011110000101011001101000011110110111100110100 00010011
1011001110010011011011011111110110111110110111110110110 011010101
1001011100011100000100100000100000011110001111000101100 110110000
1010001001100101001110000101001100001001101101111001000 1010011
1000101001011001010010011011011101101011100110010010011 110000
1111001111001101100110111011001000101000010011101111101 10000011
1000111000111110110001010101011110000100100000001101111 00101111
1000011010000111000100001010000101100000010101011100001 01010010
1101010000000100110111111110000000010000011001100111101 1011010
1101111011000011001001110110000000011001011111100001111 11010
1101101100111001111000101100000110000001011011110000011 100000
1110011111101101110111110010001110001010011111110000111 11011100
1110110000101001101010001001011011011101000110111011100 1000000
1110010011011110100000111111101001101010100000110100010 111010011
1011111111100000001001000001010000011101001011001101101 00011000
1011110001000111010110100110111110110010010100111001100 000110001

1110001011110000101000010010111100001101001100111111010010
1100101101100011100010101010110100001010000111001100101101100 00
1111100001100111100010110011100100001010000001111110000000 1010
1100010111001110001100100100100100000111101010100101011001 00001
10100010110011010110011001001011111111101011111011100011 11111
1010101001100110101110100000111110000011100000000110111011 0001
1111110100101110011000001010011011011101101010010110110111
10101001101100001010100111100011100111100110111011100011110
11000101010101111001001011111111100000101010010001010001101100
1100100011001100101100111001111011001100110111100001110001101011
1010010110001110000011001100100101100011110110011110100111001 10
1010011000011011001001001110100111100111011001111001111001001111
1100000001111110100010011011110100011101101111000010100 0001000
10101100100001011011100001011001100110001010100111111011 01010
1000010001101100000111101000010011110110101000100100101 1001
11001001001110000001011001011010100110101110011000101001000110
1001001101100011000010001010111110110011001110111011010011100001
1111110100101110000100001001000001001001100101001011001101
11001000011010001011111110100010110000000010011111100000 10111000
1111111000000001010001100100000010101010111000011011011100 01110
1111110010010100011100011011110101101001000011101111000010 11110
1010111100100011010110100011110100101001100100001111000001 0100
1010000111111101001010100111100100101110000000010101110111 0
1001001011010000001110110110011011000000111100100011011100 0010
11101111101010010011100101101010110100100101100110011100011 0111
10110111110010000000110101111000010010011110000000111011111 00
111110101100011111101101101011111101101100011001110111111 1101110
1111000110011100100001001111110010111100000010111101011011000
10111110000101110001001110000101111101011001000000010101001 0
100100110110000000011111011010111101011100111101110011110 1111110
1110011001100100111111110000011110100110110101011001101001 01000
1100010111000001011011001000010111000001010010111111000010 001
1111111100000000111111001101110010100011001100010111010100 11100
11110111010110111111100110000010010010110101000001010000 1110001
100101111111100100001100110010001001110100011000110111001011 001
1010000011101000011011111100001101110001000110001110100
101000010100100101100001110000011110011100110011111111100010 110
10010001111010000001110000010010111100111111111000111011010 000
1001010010101011001011000100000000000110100111100001001101000000
11001000110011101110010101100100000100101011110110100111010 0
111001000001110101110000011010010110101011000000110111010000 10
1100101000111110011110011110010111101111110001111111000000110101
10101010101100100011001110111011110011111000101100010100 10
10001101010011011000111110101100001000011101000011011100111100111
110111100101100001110100010110011001000110011010101110
11111011100111111011001001101100011111010000011011001001011 11
1111100011111110101011000010110011001111110100011010111101 1
11010010111111001010111110011011011100111100010111011010101111010
11100001100111101011100011111100011100010011100110110100101111

111000011010000100111100111100001101011100101010111000110101101
100101111010111111110110001101000011000010010000010100000010
111111111110011010100010101100101100100010111110111001101011110
111100101111100011110001101100111001111111110100111111111110000
101100111001111010001110111100000110110100101101000011011010110
110010100011000110011110001011101000000001100100101101100100001
111100000011101000101010110011110000001110100111101111011001011
101010011011001101101100111110101001111111011001111111111110101
111111111010001000011101000011011101001100011110110100010111 01
111011101011111101111111101001111110111010001010111000111100000
111111100000101100010010100101110011110111001000110010110011 0011
100101101100010101110111001101111010111111110111001111111 01110
111011011101011010000001000000010101011011000011100100110011
101111101101111010111110111011101000101010010101100011101011 1001
110111001101001100010101000101110011100100111101011011111110000
110110010000101000011000010001001011011010101100001000110101
101000000011001100000011001110110110011011000000101010100010101
101001100110010101110001100010010101001100101111001111010110
110101111110101011000100011010100000110011101010101001100110101
101100010110110010000111100001100011000010111011011010000010011
100111101110001011100111000010000110000110011111101101010001
100111111111011001011001111011001100000101111010011110101111
111000000000111111100010000111110100000111111101111110110011111
11001101000001110111010000111100001100110100001011011111100101
100101101101010110111110101100101010000100110001010010111110000
110011110011100111110001000111001000001110000001110100011101011
110010001100110011101011001011011001011000010010010010101111
100000111001000100010110001001010111011100000111111101011111
11111010111100111011000010001111000101010110110110010001000 0
110111100010010100011000101101000110011101111111000110111111000
101000110111110000000101010001110110010111101111010111111010110
111001110010111011111010111111100000000111000011101111101111 0111
111010011011110000011010111001010111110011001110110111111110010
110111001111011001101100110001011110111010011101111011000100
110111100101111000100101011011101110110110101000010000010
111010010111110100111110010100100100110011111101001001011011 0110
110011100100110100011100100110000011110011110010000111011001111
100010001100001010000001110000011001101110000011001101111000
110110011001110100010100111001110000000011001101011001100110011
10100000111111000100111010101001001101011100111010000010
100101001110000010010110100010100111101001011001000001010100100
11010011101000101110000001010000101101000101101011110000101110
11000101111101110100111000011111110000111111000000110101110001
110000110000010110011010110100100000110010010000010010001000111
100001111100001011111100101101001110001101101100111100111100110
100011010101101100111110011111110101111001110101100000011011111011
11100011001111000100101100000110000111110101101011100100000011111
100100001110010101011111101110010100101000101000000111101000011
1011011110001000100011101001011011111100000001111101100011011 11

111001111010101111111010001011110100010101100000011001110110
11111010110101111000100110100110001010111011111001101011000101
10000111010000011010011001101100000110110100111111000010101001
10111011010111011000100001101011101101110111010110100001111110
11001101101010111111000001011011111111000111111001110000010111000
11000110100110111100101100011000001010110000010111110101110011110
11110110111101111011001001000111010000111010100100100110110111010
10100000101101111011101110100000110011111101000100101111001011
11110111101000011110111011011111101101100100000011010001100000010
10011001001011011010101011000000100100111001011000101011000100
11001001101111110011000011111110101001110110110101011001101101010
10010011001000100011110110010110011110011111000001101001110000111
11011010000011110010101010001110110100010111111110001110111010001
11010000111010111101101101011111000100111011110000101101110110000
11101000100001010101011111110011111111101101100101111011101110101
10101100000101111101010101001110000111011110000101010010011100110
11010001001011100010111011100010101011011111101100000001001100010
1100000000110110100110001110100101100010111100010100000
100101100101110000000011101000000011001000001101011001111001011
1011011101101011100011110001100101100100101011111010010110001101
11100111000000110010010110010000011101111011001101001110101000011
110001110100010010110010000101100000111011111000100011000000101
11010001011100010011101100110010000011011001000110001101101001111
1011101110111110101100101111100010011110000001010111010101110
1000000000110110001101111101000011000101011011000100011010010101
1000011101001101101001110110100000111011010110011100001110111111
1100011011101001101001001001000000101101110011111000010111101010
1100010100101100001111101011011000100000011010101110000010000000
10000111111010000001110110000110100010000111111000111111000010
11111110010000011111100001011101000101111110011110001110000011111
11000100111011011000000011001110000110001001110001111110010001000
10100101110000100100111010010111011101100010111111101011100100
11110010011001110001100000011010001110011111100111100000010010
1000010110001000010100110001010101110001010100010011001100001
1001011000000001110000011010001000101001100000101101100110011
100000011111101111011100110001110000011111010000000011111100
11110000011100001000000111010111101011110001101101000000000110
110101001011101011111100011111011000100100111101100110111110001
11111000110111110100000111000010000110100010110101111111011010101001
1110000011100101111101001111111100000111001101100011001101000100
1101111010001110111101001101110100011111011101110111110011110
10101110010110111111001011110000100111101000011010111011101111101
1000100111000110111011001000100101000101010100010011101100001
1101110111110111000011110010101110110100110011110111011011111100101
101000101111001000110000100101011000011101101100011011101100000
11101100110011000101100000111000101011001100100101110000001
10111000100010101101111010001101110010000011011001001001101101
11111000100010100111101001101001110000011000101101010010001000110001
110011000001011000011011011001011100011111000101100000111000011

```
1101110000011111001001001101100100011011101111010101100100
1100011110001111010010111101110101110110101111100000110011010
1110000111001000111100001101001100110001111001100100111100001111
11001100111110100001110011100010111100101100101011000011
1101011101011001100111101010110011000101110000011100100000100000
10001111100011111000000111111010010110010101100110001111110100
1111010001011111110001111011011000100001010000010101100111001110
1111110000100100011101101011111111010000111100000101111010001
110110110001111110011110100000111100100010110110110010111111100
1110000111010111110011110100000111010010101100111110011110000000
1101110011101111101001111100010011010111001111111101001010111001
1100110110110110001110110111110111111010010110010000001010011000
10010101001110000101111101110101111110010001111100111100100001100
1001011101001010011110110011110101110001101101010111001101111110
1000101101001010001110000000100110011100010110111010100101110001
1011110010111011001011011010111010000111100100101101101001111101
1101010001100101110110110101111110010001000111001000001111010
11100000111000000001101110010100101111101011001111110000011011010
10000001111111000101100111100001101011010001011110101011001000000
11110111011101011101100110011101010101111000000111001111001101
110111010001010001000110000010101010110010101010010100111111010111
1100110110010000101111100001101010100110111101110011101100110010
1100111100111000010100010001100110111100110001010001101100100010000
100101000110010111000010010111000110100100111001001001100110011001
11000001000101110111111010110110101101010000111011010110011010110
10000111101000111100000111101000110101100001101000000010011100011000
100100110011111000010100000000010010111011101110011101101001010
111001101111111101011111001111101000101001110100110011110001000
1111111001010100011001101101001010100110110011100110111101101111
1100110111001101111000011101010001100101110111111000101111100110
1101110111011111001100111100111011111010011100001010010100111
1010010010011010101110011011010101101111111010111101101010111110
11011110101111111000010111111110011111111100000101101011011111
1111110111110111111001001001101110111011010000010001000111011
1100000100110010001101101111001001010010111101100101101100001010
11000010111000010100110001000000010011010001010001000111011110110
1110000000011011101101111000100011000101011110100010010011011101
1000011010101111010110011000101001001101111001110011100011101
10101010001100110010001110111000110110100100110010001100010010101
1110010001110101010000100100110001101111001101111010100100011000
1000001001011100111010110101111011101101000110101000000111100100000
100111101101111101110111101111010010010100000100000100010001000
11111000110101100100000100001010011111111000000100111100111110111
10100101110001001101111000111001100001011011110001101111001100
10001010111110110010001101111010110010010010110001111000000
101001111000100010010010011001000110001111000000100010011110
1100001000001100010110000010001010001100010000100011100011000011
1101111000100101001100101001011100001111001001000111100000011100
1011001011000111111110111101010100100011000110001101111000011011
```

100000010110101111011001100110111110100100111010011001110110010
110010101001101010111000110011111010001001000011101110000100101
110001100111111011100110010000100001111111101000010010101111101
101000001001101100101010011011011010001100101001001010001100011
101011000000100001011000110010000001100000100100010011011110001
100001011110000110111011110011000000010100010001010100011101011
110011011110010000111011111101100010011000011110110000100110000
110000101011101010000100000010000100011010001010010010010001
100111101100011000010100101101101111000010010000100001010011000
110000100101000010001110010110011111000101110001011000010101010
110101010101011110011110001110100110011001000110110010110011101 0
111100100001101011010011111010110001111000110011010010101011
101010101001100010111011111101110010110011011011000001000000101
111111100110011001100011100010101000110110001010011010111010101 1
101010110011010100001001000110110000000011001101111000000
101001110111110111001001010010010100001001010100000100011001111 0
110101000000100111111011101110110100000100101001100100100111 00
101000100101000101010010011111011010101101001010100100001001110
100110111001000111011001111110001101011110000100110100011001100
111100100101001111010001101111001001001101010001100000001101000
110100001001100011001100110000000101100101100100110011010010111
110000011110000110011011111011010000101010010000110000101000100
100001000100100101010110001110001101000100010010010110110000110 0
111000000110000101110001100000101101000010001101101111101001010
110111110111010011111101001111001101011110001110000000101110 0
100011110110001110110001111101110100010010010111101001110001 1
101100010000100010010001100011111111010000001001110110011001 0
110010000010011101001100011100000010010000010101001101 00
101011011101101111000011011001110100010001100001100011110010110
101010101100100000011100010001110000101001000111110110011101
100011100011011010011110110011010000011000101111110000001010100 1
110001100010000000100100101010100001010000110110010001001110111
100110001100011001111100010100101111111011001001001000110000 10
100000111000111100111100101010001101000010111000110001000111
100011100101111101111100001101111001001101111100000100000110 0
101000010011000010010011001110101101111000010110000011001011011
111000010010100000011001100110011110110010000011110011100111001
100110110100010010011011000011010111001011110011001111011001111 0
101111110100101101010001010110001010000101001011010111001101100
110000101011010111110110101111101101011111101100111101110111000 0
111110100110111001010111001000111001000001001101111011100000111
100111000010011011001111100001001101100011110000010001110111001
111110001011010111001111000100101000110011001011100000010001101 11
111011010001111000000010110111110011111100000101011010000110001
111010101000011001000001101010111011010101100101100000010 00
101001110111000010100011010000011101110101110000010111111010
101110010001010111101100100110010000000101010111000000101111
110101101000010110011110101010110000110100000110111100010001110 00
100110111100000010111100111100100011100000101001110000000110101 11

111111010100001000011001011111000110000110101000101001001000011
110001110000010110011110001111110100101011001001110000001110000
110011101001111110111011001011100010100110101101101000101100000
110000010011011100111011010000001000100100101001100100100101001
101111010111001101000010100011011000100011000011000111001011011
101011010000111101111110010111001001110010010011000001001100011
110000010000111011001101010001110101011010110111001111000000101
100111010000111000111110010011001101011011110100110010110001011
110111001000101011110110100010101110100100101111000001100110011
101111010000000101110111110110000110010001000110100000011111110
111101100001001101100101000000001000011011111001011011000100001
101110111000000110001101100101100100011101000011111110000101
101110110100111101000001010000111111000101011111101000000011010
110010011101000100010100111001001110000011001110110000111010100
111011000001011110111010010110101111010101011010001010010110011
110000000001010110010110111011111001110010100110011001110011110
100011011010010111000010100000111011100010110100100011001100001
110000100110100001011111010100110000001110001000001001111010010
101000010010010010110111010001101000101100100011010111011011110
100001111011001111011110000011000111010110110100011101100100
111101010110001110000001101000101000111110000001010101111100001
110001110011110110000011100100111101011001110001011111010110
111010011011100111001011000011111011001100001000100011001001111
110110111010001101000100000101001101001001000001110100001011
111100000100011101000111001000000101001011001001001001110111100
101100110100000110111110010110001011000000010111001111010001
110011001100100100000010000010101011000010110011111010011101110
101001110101010000000110000000001101001110011100110110100111000
101000011110000011101010100011001100001111101100011100010010000
101111110000000010110010000101110010001011110100011011000001
111111101101001011000000100101111010001100010000010110110110011
110010110001110001100000000110100100011011000110010111010000
110110001110011110010111110100010110110100101101011000010100101
111110110011100000010000000010111111001101011001001110110001011
111110000110001101000100111101010100111001000001011001001011001
100011001101111111100011111100001001010101110000111001110010000
111001110000101001101001101100110001001000101010111110100011011
100010010110100010101001101100110101000010010110010010110000010
101010000101001101110000010111000011001010001001000011100110111
100100100011011010111110001001011001011011010101100111000101001
110110100010001010011110111110100011110110110010000110000010110
101000000001101011110000000001110100101100010111101010100110111
111110100000100100101011101110000100010011110000010100011011000
100100010100111101000100101010100001001010110111101011111001011
101110110011011100000011001101101101110010100000101000011101111
111100100101001111110001110111101100011100111100101111010001000
101000111110101010000101111111001111111100111100010011111100010
110111100001011010001010010101110111000001000001100110110110100
111111001101111110000011101110010010111110010010100110011111000110

101110111000011110101101101111101111101011101001000110000001
100101101011011100100000011000010010001111101001101101011010010
101110000101101110000010100011000000101110100010011010001011000
110110000011110110100100011101000110010001100000111111001
111011100101000001101101000010001100111101101010111101000101100
111011001001011011000100101101100100111100101100111001101100110
101100010001010000001010000111000111101110010010111011000100110
110101011110111001111010100001100010101000110110111101100010010
110110000011001100100000000010100100111110100000111001100010
111001000000110111001111000101101011011000000011010000010110000
111111110011010011001111110110001001001101000000100011101100000
110100111110001000010111011100111110010111111111101101100100011100
111111010111010111011101101101100010001111010001101011110110001
110111011110001101101011010001101100101111111001001111110110001
101001011110110001111111001000010101100000110011000110101111011
110111011001111010110111111010101111101010011111100111101010010000
100111111110000111111001101101100011111011000111111101100111111000
101011011000111010011011110110011001001100000101001100100111111111
100111111111010111101000000101000001111110101101110100111100100100
111011001111111011001010011001010110000001011000001111001110
11111111000111111111101100101111000100101011101111111101000100010
110010010001111110000111111110001111001101100011111111111011011
111110010100010100110010101110100010001010010010101110111110011000
111010101100110100111101000000111111110001100111001001011110111
111010001001000110110111000001110010110100011000010001100000001
1110111111111111101111111110000111111111100010111011000100000101
1111100100101011011001100000000010100101110010010001110011011011
101101111110110110110110100000001011100010101011110000100011
10101110110110010110000111010110011111000010111111100100001100000
101111100110110000101111101110011111101110011111110000111000011001
101111100001100100011111111101110011011011100111101110011110101
11110011101001100100101111011101101111101010110110010000001010000
11110001010100010011100010011101110111000100111000101001101110000
110110001101111010001000110110010100110110001001011101000100
110111111001010001010011011010011001100111101101011001101101011
101000001110100100010011011000110101100111101100110101110010000
111010000001101111101101001101110001011111101000001101111000000
1100101111101001100001111100110111111100011011011001100000001
1001110011000100111001101000001001101111101000000001110111011000
1100101111111000100111101000101110000011011100000101101111011100
1000111110010101101000000111001110011110000001011011001111111110
110110001101000101100110101011011111001011111110101110111111011
1111100101111001010000001001101011100100100010110001011111010111100
110001000011110100001111100111110101111011101100101101100011
11111011001001010000100101011101101010111111100000011111010011000
1110010100010100110101011101100010001100010010011011011011000000000
100010000001001000001110000011100010100001101111101111101111100100
1101111000000001001000010000111110001101011100111101111001000110
111000000110110101011000000110110111000101001101110100010111000000

100101100011100010110100011100001001011001100100101111000011101
110100100110110000110110100110100100001010001011110100011111110
111110001011101100111001001100010010111110110001111011001001111
111101000011111001100110010010111011001100100100011001010110
100000000011000101111000011111110001001101010111000111000001001
100110001101101010000010011101101110111010111100001001011111
111000101000110100011110110111111100000000011101000101010111100
110010111000010101000111001101111101101100011000110111101010000
111000011001001011011011010010111100011000110110000111100001
110010111101110111001100000010110001100101010000110000101011011
101000011111010001011110111010001111101110000101101101001010101
111100100001101101000100110110010010111011001000111111010101111
110101100101100010010011111111100000010011011001110111110110
111010000101101101001110110110100101011000111110111010110001110
110101111000001100100110010101010101111110001011011000010110111101
111110001111101000101011000011111110100010111000011111000101
111010011010001001000000010100101101101001011110110011101100001
101010001110011111011001100011111000011010001101000011100111100
111110101110001010001100000011110001111001100110011010010101001
110110100000011001010100011111110000011100000110010110111010001
111111000101100001101011100001100111101100011110010110101000
110011011110011010000010101101110110110011110011110101110110101
110011010000101011011000100111010111000100111001101010011010000
101011000000100000111001000001111111001000011110011001011101
101000101001100000011110010101100000110110100011001111110110111
101111101001001100010111110001100010001111101001100110011111101
110011001101100101101100111111111111001111000101011001100111
101010101011001000101011011111001001010101010101111011011000011
111000000110111000011001010111000110100000011111001110110110001
111110101101101100000001111101000000101110010011101101101100111
101001110111000100010100110111110000100100110110110000011111
101011111011000001110001011011110110000101001111111100010111100
101001000011110001101011001001011001111001000010111011010101111
101011100001000110111001000011000010101001001110010110110101011
110110011100011011001100010000001010001111111010010110011110111
110011000110011000001011100111100110011000100011111110001111100
100000110010011001001001100110011110100111110010001111000000110
101100110000000011011010110011000000101101000000111001000100
110101111111000101101000001111001010111100011100100001011011011
111110000111111000101001011110000001011000001111011101101101101
111010010001100000010010111010000001010111001010001001111001011
111100100101111110000110101010001010011011100111011001110110
110001010100111111111001111111101000001110000101001110011100001
111010110100100001001000011101010000010100110101110100001100
111100001011011000010110001011001000011111101010110000010110110
111110100010101110001111101101011111100001110101001100011010001
111000000110100000100001100010001001110101011000011101001011
111001001110000000101111000100111110000000111011010001011100001
110100001111101110111011100001101011110001111101110111010000110

100011100010010101110110001000100001001100010010010010101011000110
111101100010001110111010001001110000111111000001011110110110001
10010111010000101111111110011010001011010000101001000010100010
1101000010111000110110110100011110000111101101001011110111010
100010100011001001111001110111000111010001010010111010101011011011
111101100110000000011100000111101101010101101000101110001110
1000000110100101011001000100011001000110110011110001111100010010
110100011011000011000101011000011111011000110110111010001110011
1000101110001001100100110001001110010000001000111101111010011000
1011001011001011110000011100000011010110001010011101111110101
110011000100101000110000100011110110111011010001011000001110101
1000000001110101101100111110101011001011000000000011000000011
1101101011111110001001011000111111001001111111111100010111011101
1001000001100101111101001010001110110001010101111100100011011
1001101010100101100011001111101110000111110000111001000111110
101110100010100101100010011000001110100011000000011011110111101
1001101000110111000001110011010001011001111010111101000010100011
111110000110001100010010111011010001011011001101110110000011010
1000001100111100100011011010010100110111010011111011111111001110
1010110100000100110110001001110010110100001101111011100101111111
11110010000100011000110101100110110001101100110000011011111100
11011111101111000011100110011001100100001101011000100101000
1110011001011000101000110000011000010100110011001110100001000111
101010001110000010101111100101011011100110000101000000011000000
110100000001100100000011111100010010110011010100111101100110110
101111110110000100100011011111101000000111001001111001100100100
100110111100010000001111001011000100110000011101011100111011011
100001101000011111010000110101000110001101011010100000101001
101011010011010000101010011111010110101110010111101000000111010
11011000101111111100100011110101111100000011111100100001011101
11100111110001001011011011011101101100010111000111100010010101
11011101111011000111100010101100111101011000011000001110110100
1001001001110100010111011110010010100100110110001101010111011010
1010011101110110011011110100011101111000100111101000000101110
101101100110111000011101101000111110100001101111111
10001101000000111000001011000110000010010000011001101001111
100001100111101101000011001010001100000010010110010010001111101
111101110001011000000111101110100111010000001110101101000011010
10110110110011100100110110000001001100000100111110010000011100
110001010011111111110111111111011100000011101101101111111110010
111011010100010010010001101111111010110110100110001110111001
110100010100101100110010011100111010000010100111001011110011011
111010100000001000001010001100110011101110110100111000100011010
1000010111111100111101000010111011011110010111011111100110110
100100100011010101100000011010000000011001000001100001000110100
101000010100100011011011110110000110011000110001000110101100100
101011101011000111111100011111100001111111000010101001101100000
1110101101100100100100110011110011001111110100111111000110101
1110100101111000101111001101100000011100011010000011011111001000

110011011110100110010100011100000000111000001100001110100
111100101100010011011110010111001101111110100110101011110000
110101010001100101101011001000110011001001110111001111101101
111100110111011001110100101111010100111001101111010110010111
111100000111111110110011011110110111111100111011111110011110111
111100101010010011011001000101001010001101000001000110010100
111011011110000001000000001000110001101001001001000110111100011
100000110001100001000101011101110010011011101101111011110010101010
110011101110001010001011000111000010100000001111110111011011111
100101100110100110011000010001100100101011001000010000111000101
101000111101110001000110010001110110111110110111101011110000000000
111001111111001111111001111101000010100101100100010010110110001010
101001001110010001100110010011001110101001111101001110011100110110
101100010010010000111000011000100101010101011111101110010101111100
100111100110110011110110010101001100110111111010010110000110110
100001001110111110110001001100100011011100011011011011011
110100010000011111110001011011101001101010011101010011110010111
100010001011010011001101011011101110010010101001011011000110011001001
110000010000000100000010001010001100111101100010100111010100000
100001110110100011110000000110110001111101100010000001110010110
100101011011110011111001111011011110111010000101011110010111000
101101001110110011011110011111100111011100111101110001001010111
110011011001110010111001001000111000011000000000100101010000010
110010001100101011100000110011100010011100101001101000110001010
110000001000110110011000011011010000110100000101011010001100
100011100100011010101111101000111110100100110010001001101101101
101010001100101110101011000001000100101100110110011101000001001
101001001100000100101111010000001001101010111101111101110011
111011001101101001100100101001100011110101001101111000010100001110
110100001000001111101100101101011011100111100110101001101000
100100010100101010100101000111110000010100100110110101011011110
100011110001100100000001010011000000010010100111100001010
110110101001001101010111000101100110101110000011010110100111000
100100011010100000101011001111000011100110010001101001101110101111000
110011000011110100110111100001010110111001010001111101110000000
110001110010100100110000111000010010110001000010000000011100
100111001011101101000111011100010101010000000100011110011100
101011101011100100011111101101011111001101101011110000101000001000
110000000001110001010101010101000100011011000101000000110000
111011010110010001010100110011000111000111000101000100000010011
111001100101110111100011011111001110001001001000010011000101001
100011011110010010011100011101001000101001101111000001001110011
110011101111000111101101011011000011101010100110101011011001011
111011010011001111010000100000010110011001110111100011110010011
110100101010110010111010001100110010111000101001101111011000
101101011001100001111000111101101100011000110000110001000001011
110101000110100010101011111101010010101001001011001000000110001
100110101010101110110010011011001101000001100010000011101011001
101001110010110100010010000010010010110010000110010001100111

101100011111100011111000011110111101000101101110001111101001001
101000010100100100100110010110011101111000010011011110010100
100000010010001110111010010010100001001110101111011011110010000
100010100010110011101010011001001100110000100111101100110011010
110010010000100100000101010110101101000110100111111000111110110
111100110100011110100011101110100011011011110011101110111110000
100011000000110010001011110111110010110011111110110110111100001011
111110001001011011010001100011010111011001110110011101000010001
111000100011110010000010111101000010100001110001110101110001001
100100011111111010001111000111110000011100010101101111101001011
101111000000101001101111101111110011011110010001011010011011111001
110111100001001100111000101100000100101011111110000000011001110
111100000010001001110000001010001100001100111101000111110100000
110000001100000111000101111010000111100011000001000001111000
100011010111000101111010111110100000111010111110011111010110
110100011001110000110100101101111100100110110001110001100011001
110010100000011100111100000111001110011110000011110000000100100
100101000110011100100001100101100101011100011111111001000101000
111001001110000010101000000001100010001100011001011101111110100
110011101000001101100110110010011110010001010100011001111011011
101011001111000110011110100010110010010001000011001011011101100
100100011111001111101101111101100100011101011000011100000000
111101101011000110010010111100100010100111110100001010100110000
101110011100111111011100110111001100101100001100111110111100
101000101100001011010011110010010100110001100110001000011
100110010011100010001100011100110010001010110011111101101010001
110001011100110011001011111011100010011011000001110001111101000000
111110000001111001011001001011111101101011110110010001001010011
111111110100010111110010010100111101000101100011110001001001111
111011110010011001001010101000100101101111110000011110111000011
101111011000101001011001000001001011100001010110111100111101111
111011010100100101111101111100110110101001101000100110100111000011
110011111111110011101000000100000011111010001010011011000101000
100000111011001110001100101100101010010110111101101000110110100
100000011010011001111001000110010101110100010110111100000010111
100001001110010111111100100001000100101101111110110010001110011
111100010011111111110111010111111111110000000011110110001111111
110011011110111011101110110011011001001011001010111000111110000
110110101111011101000010110100011010010101100010100011001111100
110010010110000111100000101000011010001011111001000111010100111
100110100111110001010000110110010001111110100010011111010010001
100111100011110111000111110000010010111000000100001110000011
111101001010110000000011100000111001111010110010000000001111100
111110001011110101111010001100111000110110001010011100010101010011
110100000000111101111011001100010001001001001101010110100011000
110100011001111000001001000011001100010111011110100000010101001
101100011011000111000001111000001001110000101010000110100000011
111011010111001111100111000010111011100111010000111011000101010011
100110010011110110010001100100001101101000111111110010101001010

111100010010011101011001100110010001110110000011010001011011010101
100100101101011110111111100000110000001100110001111100000111
110111100000100101110000010110111110000101000101111011000101111
100110010000111000101001110011101001011010000111001110000110101
110111011001010110000001001100101001011001001101000001101100001
100111101100001011001000101011110100111101011000101001110010001
110110001000110111001111101010001100000011110110000100011101000
101010011110010111000101001110000111100100011110010001111110010
110001000011111000100101011110111100110111110110010011100010010
100000010111100010010011010010110111110000100101100011111110
100100100100101101110100011010101111011010100111111110010010111
111111000000011111101000111101110100110110101001010100001010011
101101100101011100111110010101111010101010000100101101001110100
110000111100101011101011000101001111101000011000100010001100110
101001101111110010011011111000100111000010101111101001001001
100100011001101010111010001000101000010100110111000000100110000
110010000110011110110011110010001010110111110110001101100011011
100000000001001110000111001000011100110001010110111101000001110
101100011010110000010100001101000001011101000001100100000010011
100101010000011101010111000000010010101110011011001101000001
110100001000001010000011011100100000010100100100100100101111101
100110001001100100011101110000011011111011111110111000011101001
111010001100010101001010011101100010010010000001101011001000000
110111111111110010010000010101001100111010100010100100010101111
100011011101000001000110011110101001100100010000011000001100100
110010010000111100000110100011000000010000000110110000010110
101001100111001010110111110100001110100000111100101110000001111
111010001111100100100111110100011011110000010100000100100100001
110110000111111001000001100100100101101111001100110001010001001
100100101110110000100011100010101101111110000001111011001011001
111011001100000010111001110000010001000001100100010010010011100 10
101101001000110001010110000000010011001000101000000110011111011
101101100111011011001110111000011111000011111000011101101111110
100000011000000101010011111100010111110110111110110010010101000111
100110100010001011000101010100110100011011000001001000100011110
110000010111100001000101100100101001000001100010110000011011
100101111011110101101110110011011111001001001011111101100 00
110100101110010010000011110001001100111100010110101110110 0011
110001101000011001100111110001000010000010011010100011010 11111
110010010011011111011011001100111000011101000110011001011 0110
100100000001010111000000010101010110000011100000101000110111
111001011111100110111111100111010100111001001110000111001001011
100100111101100011111000100111100110111101001111111011100111111
111101000000100100100000001010010110110101011110110001101110 1
111100000111111010100010000100100010101011111101111100110001001 0
101011011111100110110111111101101110001010001111100111110111000000
110011011011001111111100011011111101010110111111100110111101101111
10110000001111010011010010110011010001111110000111110000100111
111101101000110111110010000011100100011101000110100111110001

110100000010010011000110001000110001101111110110111110101111
101111110000011110110011000110110001001011011111100111001101 00
100111010001001001011010111010001001100111111110110011111111010
100001101011011011110110001101101000001111011000011010111 10000
110111110100111111010011111010011110001000100001010110110100100
101011011111100101111111110010111000000110110110110100001 1101
101001000000000101001011110000100101011100110111101011111111
11001010111110001011000101011110010110100101010001010010100 0000
100111001001010111100001000101100010011011111111110001101011110
110001101101100100000011110011011001000010011110000100011 0111110
101001100111011100111010000110110111110111010001111100111 00000
110011011001010100111010011111011000110101011111111011010010011
111111100000000011001100110011010000100001000101001001100 111000
101110010101000010000001110010111101010100111110100010100000
100101100011011000000111111100010010101111101010110011111 111100
111110101011100000001100110110010110010001100000110001101110
101100010010001001100010101011111101011011111001001011111110 101111
111010000011101100111110000110011010000011111000010110100000 1100
10010000111001011011001111101100100010111011000111111000010 0110
101100100111110100001101100101000100100001101101011011001001 001
110111110011011001111111110111011110101101100011100111101000 1001
100101101100010100100011010011111010100100011011010111101101 111
1010000110100111011111010010110110101011101101010110101 10000
110110001000111100111011011010001100110010011001100110111011 00
111001011001011001011100011010011101011010101111001110011010 0100
1100000001101100011100101000010010011011000011000100110011000 1
11011011110100011001101010101110100011110011110010000000000 1010
101101111111001111111110100110011011100000110100001000100100 1100
111010100001111111110111111111101101101101010011111011001110 010111
101101100100101000111011110110110110110001010111111100101100
111100110110001100111101000011001111000110101110001011101100 00
100011101111011000110001111100100110100110000000011110111 10010
100011011001000111001000101101101110111010100100100111101110 1
111101001011001001111101000111101011000101110110000010101100 00
110101110111111000101111100000101100110110001000110111010101 1111
1111001000010101000000101001111101000001110011011000101011 11110
110001010110010111001011001011111010111111000010100101000010100
111100111010000000110001001000011101100101100110000001101101 1011
100110010010011110000111111000111011010000010111010000011110 0000
110010101100010111101111011000110101110111101001010001100 11110
101111110111011100000000101111100010001111111001011000100111011
110100100111110110001010101110010101000110011010010100011001 001
101011111010101111001010111100100111111100001010001000001100 1011
111101111101011111110101001000010001010110110110100011101111 0100
111100001110000000111011101110000010011100001110111101100011 0
110110001110101110100010110110100001100010001110010110101111 110
100100011000110011001100110111011010001100011011000110011001010 11
100100000011000101111010111000100101001111101010101010101101001
101001100010010100111011001101101110100011001110111111110110 1

101100110100111000101011010111000110011010001011101100111100111
111101100000011111100101011111101101000000100011100100010110
10101100001000101110001010101011011010101101111010011011010110
101010000010100010011101010011110110100000011000101011100111111
111100010011011011011000101011111100100111101100100011100110010
100001110110010001001001001010101111010110011001110110110010
11011010101111111010000111001110001111100110001100100110110000
110001110100010011110010011100011001001011001111100010111000000
1101011011100100011101011001111001011111000010000000011000110
1111000101100011011010001110110100111100111101100010001111110110
11111000001110100110110100001101101011011111101111101110000010
11111000101001111001110000100101011011010001111111100010001000
11101111000100111011000001010100101110010011111100001011101100
10011011010011111101000011111011101100101110110001010111101100
11110101001011011000011111110000001110000010001100100001111010
10111000101001101001110000101010101100010101110000111000001110
11111100001011101011000100111011010000100001100010110011001001
10111000001100111101100011011101111101100010001000010000011101
10111101101110100101010011011000010011010000001100000000011
11110111001100101001110010011011110110010010111011010101011110
110110101110100010111000100000111000011011111010111001011100010
11100000110000011100111011000101100010100110110010111100100
1011110000110011011011010011101101001100111100011111011110001
101110111011000000101000100101011000101100110001010101101101100
10110100001101100010011000011111001001101101011101111101001111
10100011000111100001001111000011001001101001011011010101001010
101101101101110010110110101100000111000100111101111000000101
11001100000001000110111000001101100110100001000101101011010111
10111100001100111101110010011000000110111001111100110011110000
1110010011011110010101011000111010011100011110010111111110000101
11110111010101100000100111101010011001111001001011011001000111
10110000001010011001000101011001101101010011011110001110111111010
1100010011101100010101111010001000110000001111100110001010100
1110110101111100010111110101110010010000010001011011110011010111
101110110111110100001110110001011100110101100100001010010000010
111100000001110100110110010011111110000101111101111010001111
10111101100010011011001101000000110110011000101001100110011001
11111011110011101001101011110111010110011010101110101010111111
1001110100001111101111001100110101110110111000000001101101000
111101000011011110000101011001100100001101111000011000111011001
11010001000001111000010000100010101100000011001001001100000
100010110011000001000111100010101011111110001001001001110001001
10101010110110110011110100111100101110101111101101100010010101
11011010101111000001111101001110001100010100110001110100000111
11111000111111101101000111010111001001011101111100110110000011
11000111100011111110101101110111000100110011101100001010000001
10110100101100001010011001100111110001100111101000101011011100
11110111100001110111000001001011010101000111110010000111001110001
10000011011001110111000001001001111011000101010000111001011100

111110100111110100111110111000000111001001101101100111111011
101111100000110111010110110001100110111100001100111100010101
110110011011101111011011111001001011111111100000101101111110011
111111100011111001111000110101101101011110101010111110101110100
100110101101110011011111100110100001110100110100000110111010000
110000010010110100010110110111010001010101110100011000000000000
110011010000100010111001010101010001100010001111101000111000101
100110100011001111101001011001111101100010001111100100011100100
110001001110001101000011001101111111101111000110110000110100010
101011010100101111001000000110101101100001001100000110011000101
101100111110110000010000000010001110111101010011000111100000010
100001010110110101100001011101001001111110110010111011100111
101111110100011111010011101011101000110000011110110101011111101
100111000001011101011111110010110010011100101111101000001010
100011101111110000010110011101101011111010111110101110111111010
101000111101000111011001000101111001011110110011100100111010001
100001100010100111100010011111110010011111101010011111011011101
110111011000110110000010001101000110100111111101110001011001000
110000000000111101100011010110001010111011111010011000010001
101110001110110001010010110101110000101100011001100010110111011
111001110001011111011100110010010010011110110110111110011100100
101101100000011011111001111010001100100110110010000101110101
111111111001001001100001010000010011000110100110010111110
110010011110101000100001001011011010011010000010010000001110110
111011101011001011010111111001011110010101111100000110000000100
101000001010011111101101011101111111110110011011100110111111111
111010101101000110111001100110111001100000000100101110011101010
101101111001010111111011111100110111011110011000100110101111010
111000100111101000111100110110011110111011001000110001110010111
100011000101001001110111100000100000010100111001011100110110010
111101101000101000000101011100110010001100011001011011001100010
110010111110111011111011110010101101010100110101101111001010111010
110101110111001100000000010010101110111111011011101011110010010
110110010010101101011011000011011110011010000111100000111001101
100001000100010010001010010001110111011100010010101010011110000
110000100110111001001001110100000101010011010001000001000101010
111011101100111100011001010010111100110110011000100111000100001
110001001110111101001011111111101100110110011101010010001010001
111010100000110110011101010110101001100101111011110011011110101110
101011001001001010110110101110110000001100001001100101111000010
110001001000010100001000001000101000011101111001011101010111101
110100101111100010111101111100010001001100010001000111011001100
110001001110010001110110001011111100000100000110110010111101110
111110100011110100001110011000111010100111100011001100000101101
100000100101101010000000010100101100001011001100101110110110100
110000101101101011110000110100110111110000100100001101000100000
110010110101110110001100100101100110011100100010000100100111100
111001010101111011110110011010101000101001100000111101010100100011
100000101100110100111100000100011011100100000110110011001101010

110000100011111101111011010011000101001000110111100101110000000
11101110110100011001011000000100011110110110010011101101011001
1001011101110011111000011000101000010010100110011111010101010
1011111011000110001010101110110111101001111100010100110001011
100101110010111011001101111001001111011101111101000001001101000
1010011011001111010111100101100111111101100100001011010010111 0
1110000010011010100010010010010111001011001100101000011111110001
101001101110110100100001100000110011111100000011111111100101 10
100011101111010100010010110001101000011010111100101101000000010
10001111111111001101100100000001000001101011001101000011001010110
1100111101010011000100000001000100010000100000011100000111000010
11000001000101001101111011010100110000111001000011000110101011
100100110111011001100011110111001001001101111111011001101111 0111
10011110111101111011110111101101111110111001011000001000110111101
11100100001100001001110100011100010000111100001000111110 0
110011001111010111101000011000010101011000000010101011000001
1111101000101000100010100111001000110010111001101010101001011011
1100000010001010001101111101000011011110111010001011001001001 10
100111111100010000000000001001111111100011111110011100001011100
1010001010101111100000010000110000100100111100100001001011011 11
1110110101011100001101110111011001011010010110011000101111110
1001001001100110100100110111100011001011001000111011011 1111
11110000111010100111000000100010100010011110010110011001011010 0
11010011000010111100001101011011001101101110010110001111110001
11100001010001101100011000101011000100011010100011011001101 10100
11110101000111000001001110011100010101011110111001111010111110001
10100011001111001101011000010101110001010001101000001111010 1
100111010100111110110000011000101111100000011000001100100001111
1000100111001000100101101100010100101010111001000101001011111010
1010001101000011000001110000011000001100001100111100101011100 00
1100111000010100010011000111001101111110011001100000110001101011
1000011010110100001110000111000000111000000111100100110011111 10
100110010001100111011011101101000010101010111111110110010000 11
1110100000111011011001101110100011001111110110011001001101000 0
11100100000101001010100100011000110110111101011011111111011011
10011000100010101100011000000110110100001100100101100001101101
1111111001000110101111010101011101000100111100011000001111000001
10000100011100101110101010101010101011100101001000000100101101
11001101000011001010000100110101100111100010100110111011 11001
11110010001110110111111010011100111110101011000000010111011001 11
11000110111110001101000011011011100100001100111000100011000 10000
110001011000010010011110100100100100001110000101001111 0101
1001001111010111101100110010010001010011000000011110000101110
10100110110010111101111111101101111010011000110001001001011100000
100110110010110001000011101000100101011010001011000100101101 1111
1010101111101101111101110111101111001001110101011101110110001
10001001010101000110110111100001000011100101101110010010 11
1001001010001010101101000000010111101001010101001011111110000 1001
11101101100100001110101100110000001001001100110011010010000101 0

```
11101110011101100100101001110111010110001101011100100101011100
11000110011011011011010111101000001000001101000010110111000111
11001100100011101111001111001000110011001001011000111000001000
100111101100110000011011001011000001011100010111100011000000
10010111100010111000000101000110101101100001110000010010010110
10110010101101100111100010010000010010011110111011111011101101
11010000111000110100101111111101001000111101000001101100100000
11110100011000101001001110111110011011010111100111010100110000110
11001110101010110100100000101111010001110000000110010001110010
10111001011000010110110100010010011011111000101001010000100100
10010011110110001100111101100011010000010011110000101010010011 10
11111101101011001110001010101101000011001011101100100011000011
11011001110011101111001001001011110111100000011000001000110011
10001000100100100000110001101111000111100001001000010110000001 0
100100100111110011100011111001001010000100100100000000 11001000
11001100000010000000100101010001001010010011110011011001 10
10110111001011010010010110010001100000101000111110010001000 10
11010101000001001001100000011100111010111101110010100101100100
11101000111010111011010000010101110110000111011001001111111101
11101001011101000011010000000010101000000010001000110000011001 0
10011111111011101111010000110000011100101111101001011111000100
10110111001111010011101010100100101101100000010100110101011000 10
11010100010101100011110000100010000101101111000011110000010110 1
10101111111010101000100111000010110000100011000101000011100 10
11111111110110011110110100111001110110000001100010111011001000 0
110001001111000101011010001001000110001100110111110110011011 0
10011110001000100110101111111101001101111000100011000011011000 11
10000111101111111001001100110011011110011111101111010101110111 11
11000011010000110011111000010110100011111001001111100010001 01001
10111010000111101011110100110011011001100111001001110001111 01101
11001000100011101110101011100100010110110111100111011001100110 11
1000100010010010010010110101110010111110001001110111110100 10
11011000011001000100101101111100100100011110010011111001000001 0
11100010101001100110101101111001010000000001001111010111110000
11000000101011100011100000111111000001010111011000101101011110
10111000001010000111001010100011000001010000000101000111010000 0
111101000111101000111000111100000010011110110111101001100111000 0
10110100001110010011010010111110111000010101001100110011100000
11000001001011101001010010011011001100000111100101000010111001
11001001011111001011111110010000011111101000101011110101000111 00
10011110110100000100011001001000010011101000001100100000100011 1
10111100001000110000000111000001101011010010111110001011111 0
11110110001101111000001011100001010011011101111010001011100110 1
11011101111001110100011000101110111110001011101100000000111000
10010001010011011101111111111110000010110111000010010110111111
10011100001010110000011011001100011010000101001100100010100110 00
11110000011100001110100011101100001010010001100010101110110001 00
10111001111010000000111111100110011000110011011000110011101001 01
10000110110000000100110110001011110010000001100000000110001000 10
```

110100101100111100100010101111000110110110100101011011100010110
110011011100100111101100101101111010011100001100011011000011010
100101110010010110110001110111001011111001011011011001111110000
100010101101100011011100000011011000001000011110110100001110010
111010000011011000000100000111110100011001011011010111010011010
100101111110000011110100001011110000100011000000100111010000111
100010000000001000111100000011111101001101100000001000100000
1010010101110111011000101000101001100110010000111100000
111100101010100100100110000111111101100110011000001110010001110
100101000101000110011000010100010111010001010110101000110110001
1110100001111010001100001110111110001011111010010111000000010011
110000110100110011001111100111001100011001000010110101101001101
101110110011111010010111001111001000001000010010011001001101000
101111100000111001101101001000000011111111010001100101011010
111110111111110111100000111001110011000001101110011100010100101
101110100111101000011010110011110000100000010010010110000101001 1
111100000101001011101010100101101111100011101011011011000110111
101100111101011110111010100000100100111000001001101100010011011 0
111101100110010100100100100111101101101100111100001110111100111
110111000000110010001000001101100100001011100001011100010100
110001010010111110000010010101100100100011100000111101110001
110011110001000101100011001010111000111010011110011111100100000
111001011010100000100000011101000011101110100111100000100011100
110010011000000100010100010110000011001100010111110100000000011
101011100101110010100111000001001100001001011111000010010100000
111101100011011110110010001110101111001010100111111001001000110
101111011000001000011011001101010010000000100111011001110000001
100010001000110010001101100010101101100100010001010110001010010
100000111011001001001011011101000101001111001000101111111001000 1
110010000000110010001111101100110100011111000111010111000001111
101011110100100101101111000001100111011101111000000110111011110
101101011011111101110111111111100111111010001001001000101101100 01
111101100100010001100111110011111111111100111111111100101111110 01
111101011111001011101000111011010011010011000111011010100100
101111010110101110101100110111000010100111110111110011010111110
101111100110111110110111011011011100101100100110111000000101 11
111110101011111111001010111100110111110101111110101011110100
100110010101101100011010011001101101111001010100011100010011111
100001010000001010000010111000101001110001011001000100101111100 0
111001101111011000100000000001000011110101010101101110000100011
111010001111010111000000110010001111010111000110111111000110011
111110001101111111101010011111111110010100001010010010001110111 1
111110100001110000000101011010111000001001010000001001101101100 10
101011100001011011000100100010100101011001001110011100100011011
100101110100111100001100111011001111111100000111110110001 1011 0
110001011110111111101011111111111111011011111110110110110 1100010
110111101001111100100010100001101011011010011010101110111000 11
101000111000000011000101011001000100000010000010100110001001011 1
111100110001001101110100011000111100000100111000010010110111110

1001110010000110000101111001001011001000110111010000110011101101
1101010111000001001100010000000000010010011010001010000101001101
1000101101011110111100000011101010001100101100110010010110000100
1101111011000000101100100010110111110000011111111000111111110
1011000100110111111110011010110000000101011011010000111011101000
1101011000100100111101101110011111110100011001111110000100000
1101111101001101100000101010101100110010001100000001101011111101
1000110010011011111100101010101110110110111110111111111100100011110
1011101110010100110011000000011110001010110011110100101111000001
1111011011011010011101010010010110010011000000110111110110001000
1000111111110000101011000110000001101110001000111101101100111101
1111111000111000110010010101000000000110011110100010010110000111
1011111000011110111000100111110001001111101111000011011101100010
1101111101100000100110110110110011100110100001111010001001010011
1111000110011001111010111101110110100011100111101000100000001000
1110011101111100100100111110111011101110000010100110110010
1000010011011011000010001001101101100000101010010000000001010011
1100000101001101101111101001011111001001101010001010111100
1111100000110000100100111111010001011101110111010011010101111110
1010101110010010010011100111100101100110001111011111011101001111
1101111000110010110011010101111101001010000010010011011111111100000
1010001100010110100111101111100101001110100010110101010010011001
1100000111100111110111100011010011000011111100111110111011011000011
1001001111101111101101111100110011011000001001001011000010
1101100100011110111110001110001101110001010100001001100110000010
1000100000110010111000000010011010101010010110100101011011001000
1101101100110111111011100010010001110111101001101100110111110011
1100100110011111001010011111110010000100110001011110110100001111
1000111001001001000010000011011100011010000111011100010001001
1111000100011101110001111001000101111011100110011101011100011011
1010111011001111111111011001100100101011111011101111011000011110111
1111000011001101000101000100101011010000011011001100101100100111
1100111010111001011011111111000111000111011001110110100110100001
1110000010101010000001011010000000111001001000110111110001111110
1100100011101001001100010100111101011010000100111110100011110
1011101110100011111110110100001111010001100110110000001111110000
1001001111010111100110111000101110000100111010101100110011110111
1101100100110111000101001111110001011100010000110011000111100
100111101101000110111001100010111001111000000110110101111101011111
110000111111000000000111101100010100110100011110111010111101111111
1101111001110000011111010101000110000011011101000001011011011011
1001000011110001011110010100110011010111011111100100000010100
1010110111110100111010010110011000101110011011110001000000100011
1010111101100001001000100000110001101001111111110011111111111000011
1001000100111011000110011100110110001100011001000110101101101
1100110110101001010110111101011110111001110111111100001110101111
1000000011101010011110010001011011001000110001100100010101001
1010001010011101111101100110000101110010000001111100000011001001
11111000110111010000010100110110001001111001000111101101011111001

101000011000000110001100111110001110101101100011001110111101000
1110100010101100010101111110110001100111011100100111000001
11101101011001111001001100011101100011000111110010000010111001
111010011110000101001101000110101111000100011100000001110100100
110100010110101001001011000110100010111111100101110110010101001
1001100010010011011100011100100110100001100100001101110010001000
101111010000100010001001101101100101111111110011011111111100110
1000011100111001110010101110010010110100010111011001110111100
111101011111101100110001011101010001001000111110010001101101110
111001001101100100000010110111101000010100011000101011111101000
10010011101100010010100001110010000011000001001000110010011011
1001111101000001110110000101011101001101000000010101000111111100
110100101000110100100111011101100101101110010101010101011011000110
100101100101100110011001111101101111011000111110010001011010101
1010010101110000010101000001010011000111111110011011110001011000
101100110000011100000101001000001000001101101110000000111001000
110000011001001110101011011111011100101011101111001101110001010
1010001010011000111000100110100010001110001011010101000001100
100101110000010100101110100011010101011100110110010011101000011100
110011110110001101000001111110000101111010000110001111110000110
111110010001101000000001101001101001111010001011111011011000111
111000001111001110100111010111000110011110011010011111010001100
101001111000110110001000111101100011111100110111101100111010000000
101011111011101000110111101000100101110001010101111110000100011
110100110010011000110010000011100010100111100000000100001010110
10000101100110001011000100000110011010111001101100000010111010
1000100001010101111101000101111111001001110000000110110101110
101101110100111100010011110110001100110001101101000101111101
110000011000001100000110011101000000001101111011011001000001001
100111110000011100011101001111011010001011110110100101100110110
111100100100100110010001101110110100100011101100011101101011000111
1111110010100010110001011010110100000001101000011110110111100111
10001011011000011101101111110000010010010110010111111111110101001
10110000011011001101111000111001101000010110011000100010101
11100011111100100111010111001010000111101000011111110010100
1100001111100100001010100000110110011101010000000110000110111101
1110011100011011010000001110110001110100001101110110010110011111
10010011110011101001011010001011111101101000101100110011110110110
101111100011000110001100010011000011101000110000011100010010110101
1100010000101110000010101101100011001101000010000111111001001000
100010000000011001001110101111111101011001110000111010110001
100000111011111111000101010111101000001010101000011001000011
111101101100101111110101011111101101100010000011110010000111110
100000101001110001111000100011011011010000011111011111010001100
1010101011011000101000001000010111011010001010011010000110001
1010110000101011101101000101111001010101011101010010001010100111100
10100110100001000010100110000010100111110011110011111111110000001
11111111110001111000111001010100111100011111011010000000011110110
100000110100000111010001111010000000111000101100000111111000001

101101110010110111110101111001001000111100110011010111011010010
10101101000111011001000111100000110011110100001111011001100111
110101110000101110100100111110000110101011001001101011110
111111100011110111110010010111101001101101111010011101111011
11111110110011010000110001000111100000010111100000111110000110
11100001110001010000110111001111010001111101101111001110110
101100011101000111100100111010001100010010111110001101001100100
1010001001101001011101000011111110000110001111010000001101000
11110010011111100100110100110010101000011010000011010110101101
101011100011111010001011001100100000111101011001010111001011101
101111011011011110011100111110101100010100111000000111111101001
11100011110000101101001000010100110111111110000011010101110000
111000000001101000100101110100100111010100001011110101110111100
11010101001101101010111101010110001010011010010111010001101101
11000110000001110011110010101100101110010001100110100001001001
11010001111101101101101110101101100110011100000101011101100010
1111101010111101001110100000000100001010011111001001111100100111
10100011001111010000101010100011011111100110111000110110011010
11011100011100000100001000100100011010011000001101011101111111
1000010100001111110000111101000011111110011101001010110110
11111011001111101010011111100110110111101111111001010000010101
1000001100111111011100110100011011000111000100111001101101010011
100111101111011110111100000000000100101011101011011011110010101
11100100111011110111110011011001111011111111010000010010101110
1111100010111101000011000010110100110111111101001110001110100111
101111011110110111010110010000010010110011001011110011111111
1001010100111000100010000111000111100001111011000110011011011
101111011000100100100101100011101101100011100011011110011001
1000000100010100000110011100010101010011010010100101000110000
111000000111011010000010001011110010001101111000111001001101
110100000100101010001101001001100101011110111011011110110000
100010010010010101110010101111001000001000111100110111010111
11100101111011001110011101111001110111001000110000010010111
1100010011101000001001101100110010111010011001100000100001
11001111011001111011010010010000101000111100010000001110001100
101111000011100011110101110000010000001001100100010001101111
1000100111110100011011100000100001111110100101010111110110111
11000101111010101011010111010111100011010111011001100110000010
110101111000010000000100101101011110111100101010100001110
111110100010001011110101000110010101101000111110111011010001
1111110110011011000110000001001111001010010010101000111010101
1000000010100011111011000110000001111001110110000110000100011
1000000000000100110001011111000101111000010111111111101000110001
11001000011000010000101101101101111001100100000000100101111101
10111001111011001111100101111001101100111000110011100011010001
11110110100100000100001110011011111011001000110001000110010
1101101111110100000000100011110110110010100110001010000111
1100011000010101110010100101010101100110010010101010101
111001000000101101100100100011001011110101111011110101010001111

100101111101000010010001001100101110101111110100110111001110011
1101101111010000100100110000000110000100100001000000011000
1001101110000001110110111001001001111100111000001010110100001100110001000110001111110001110001101011011101111011110100
100010011100100011000010001001011100010101001010000100010101101011011
111110111101010111110010110101011110101010101110100100100011000010111000000110110001001011010000010001101100000110010001010011110110101010011100001001111111011101111101000110000000101101111110000011101101110110011110010111000001010110000110100101001110010011000101000101011101100011000100110011101111111111101011101000011001011111101010001001000001000101011101000110100110101111101100000100101111000110011001100000010010000000100011101001110010100110000010001100010010010010011111000011010000011110010110011000101110000101010111011001101000001000000010101100110011110010000010100011110101110010100101001101111001100000111101101101110000010011010111001101110110111011111110100111001100010010010001001101000001011001010011001110011100001011110000000110100100101100001110000000101010011100100110111100010011011100111001011110000011011011010010000101010011001110110010111010100011010110110100010100110011000001100100100100100110000011101010110010110010010000110111001100110100101000111000001110111001001010101000010000011001100111000110001010110000001000101001100101100000111000101110000001010011000110101010101111000001111001010100011001101100101110110011000000110100010101011000111100011111110000101001010011001100111010000001010011000101101000111011011001110000011011100000010101101100111100011101011011111111100101111110010000001000011100011011100000010110000001011110101111000101001011101100010100100110100000101110110010100101101111010110111111101000101110001100101111111000001001011111110010000011110010110001111000011101010011000101111100001010110100110010110011111110000010011111100011001110111010001000110000000010010001110000110010010010111111010000010110001101110001101010010111010001110010111111010101110111110000001001101011110110001011110101011000011000110001110001011101100000110010010000000001011101110111101111011110111100001000011000110111000100101111101000111000111001011110100100100101101011100100011000010110110111100101001110001100111100001111100000101111110000111001001110111000000110111011000010110000001000011100110010111011001110000111111000011111100110001001010010111101000001111110001010000001010110010011011011110100100101011011000101001110111000011111010100110100010000001001110100000111000111111111101000110100000011100010100011001111000010011010111101100101111100101110011101100111101001010111100100110111110101010100110100011001010010111110100011110011010011011001011000001110110111100110111111110011011111101010010110010111110111011010010101100110000100001000010011101111000011000001001001000001101110110011010010001000001101101000011000011110100000101000111010000110011110110010011110000010010001101111001111010000101000011101000010100101011100100110110101101111010101100000010111110101001011110001010100100101110000

101001011110000011100010100100100101111011100110010110000001110
101111001111110100111101011110011000010010010010010010101
101101000110000000000000010100110000111001011110100001000011000
110111101011110110100001000011001001000010110100000011111101001
111010000010101101000110100101101000111111100111001101111000
101101100000011111000011111010111110010000111011011001010101
111000001100111110100011111101110001010111010001001100111011101101
110111011011111000110011110000101110110000110111100010111111110
100011001100011110000110110110010011100000011001101111110001111
111010111010110110001100101101001011110111000000100110111001110
110110011111010010111110001111000110000111001111001100101101100
100111110100111001101101010011101110010010000010011110100000100
110100110100001010011110111000000110001110001010001101101100
111011001111010101100100010101101111100101111101000010111010
110111110111111110111111111101001010001011000010011010011100001
111011000001000111011110111010010111101101110011001110011111110
100111001000110000001111011000110101011110101111000111110111100
100111100110101101111001101111000101110010010001001001001000
100001000001010101110011000011011010000111101000101101010111101
110001111110001111100001111101011000000100001011010000000111100
101101101000100100001010100100101100101111000011101011010101
111010100111010100111011011001100011111010101011001000011000100
110000011111110110000100011011000011111010001001111010011111
111000001110001001000010000001010100101100000111110011001100101
111101100011111110100001111101001000110111101101000100100111111
110000100101011000001000010100001011011110110000110000010001
111110001001000110011001101110001100010101111001111100111000111
111101001101111110100001111110001000011010000011100100000100001
101111011010111001011110110110100100011001001001000110110000010
110111110100111011100010100010010000010100001111101100110010001
110001111000000111000000000110111001100010100000011011111111010
101101100110000001010101011101001000100011011001100111011011
110011101100000011111100100000111110001110110001010010000001001
101100011110101110011001111000110001101000001011100000001000111
111000010001011000001000100100000101100110001110100010011111101
100000100011101010001010110111111100011011000001110000001000011
110000001101110110010101000010011101100110001001110010000000001
111100001110001110000010010101111010010010010010011111010011
110111010000111011110010110010000110001100111011010001110010001
110110000101011001000100000110001010100110111011000010110000010
101001111010000010101001010110110010011001001011011110110000
101111110010111111010011111101110101001100100011010111000101000
101101111010100011101100100001100000010011000001100100011000
101100000101001110000000101110100110011100001000110000001001100
101110110011000011110000001111101000100111110001110111111011
101011101011110000110110100000000010111101111000000111100000
111101001101110110010010001001000001101101011010000010111100100
111111101101001010001011001101110100000100011001011110111111111
100011110110110000110110100101001000101010110111100010100010100

101011010000010010000101110011100000001010001111110110101011100
110110001100111110100000010000000101010001011001001001111111110
111101100000001101100010010011000000011101111001011001100000000
110011000010111111001111001111001000011111001011111101101010100
101010011000000101011111001100001010000010110001010101010000100
110100001110101101100101101101111100000011010110110000111111
100100100111111011001001111110100101110011010001100111101101010101
110000100101010001010100101101111111110110010000101101100000101001
100001111001000101000100100101101001010110110000000011111000110
110100101100000100111001011001111100100000001001001110100010101001
110010001010110100011111111000001000101111100000001100000110011111
100001000101101010001001000010001111101001010101101001011000011
100110101100101101111101110110001100111110110110111111100000100
101110111111010111000100110111110001001011110100101000110010
110011111001101100010011111010100111110011001111111111100111110
110011111101000000100100111101000000110011101001111100010011111111
110011111111101000111001110001001000010001110100011111110110101
110001011101101110001001001100001000101001001001011100000111
110000011010000111101011111111101011111011010101111110000000011111
110000001111000000001101000011100100000101101100011011101110
110101100111010100110000000011000001011011000010000110110001111
110011001001001110100001010010111011000001101101101010000011100
101111110011011100100111000010111111110011111001101010001010100
100101100011111011101000010010110010011001111101110011111100
101000011110000101001101100000100010101111011001000001010100111
100001111111101111101001010000011111111111001000000000010101110
100001011111111001111000001101000010101000001111011110001111100111
100010011011101101111111110011111111110011011111100110111100010111
101111101000010110110111000111101000011011000100100101110101110
100100011111010001010111100000101011010011010000110000111100010
110011110011001101011110000010101011011000101111010001110111110
100001110111110100100110111001000111101010100001010100000110010010
100100111100011010111001001101001000100100010011111000101101011
110101001110000010011111111110101101111011100101100100110001100
110111010001001111000101000111101110111100111100100100000110
111110000110001111100101001100100001110111111000100000111000100
100001111011100010011111101101000011101110110100010110000111000
110111111010101111110111010000100011111100001111100001001101101
100010001110011001101001011110001001111111101000110101101111100
101111100011111111111011101010000010101000001100100001100111
110101110000101100100101011110001100111010000011101111000101001
101010011000100111111011110100011000010000001100110111110100101011
101111101001101101101000110110100011011101111100011000000100000011
110010001001101101100001000111010000101100000010101111100101100
111101101110100011010000111101011011011011111101101111011110110001
101000101001001101111100001011000000101000100100110001000001110
100011001100000001011000000100111001001010111010001110100011000
100010100101110110001010011111101101000010111011010010101001011
101011110010001110101100100000001000010010101010110010010011100

110010110101111000000001101100011001000100011101111100010000001
111110000101011000101000000111101001011110010010101110110011001
100000111101110001001111100110001000011011010111101111000010001
101001110101011111110100001001111101001011000011010001011110
111110100000110010000100011011011101010111011111100010111010001
110010111000000011001101110100010101101001000100011001001100000
101101010001101000100011100000011011101100101111110100110110
1000110111110111100010101110110000011000101110100001001100100
10001010000100110001011011101000000110100101111110001101101111
110000111010001111101101001100111101100011001101110010101001000
110111010001111101100100100011011110000111111101010001111101000
110001101001111101000011001110110110000111110100111001111101100
101110000011011000000111101110001011011100110001001001000001
110111001111001001011011111010101101101011100011111001001011001
100010101101010011100000011001100110111111110101111010001100110
100011101000000101001000011011110011010001100100001001000110
100100011000100110010110100111110100110011100001010101000100100
101101011001100110101110011110110100111101100111001011101111101
1001101010000000101010010011101100001110111011000111001001001
110101000110010001001001010010101100010010011000000100110011
111011010010000010010010101101000111000001101000010001010010
110110110111111101010010111000011001111101100010111011011001011
100011100000011000100100011110110000000011000010100111110111
100111001001110111100011000011011001110001100101011110100
110111010011000101011110000010111111110000111111001001100111101
10001010011001110000000011010110010101100001010010101011011010
101110111011110000111100001101100101101100010010100010100010010
100011010011101100101101011011010110011000001010110111110000100
11101011110111111001110011100111110111001101011000000110001001
11110111000111110000011101000101011110100111000011111001011111
1101011000001100110001010010111001001110111101011101100111100
1111010000011111000010110011110000001110001101111000101011101110
1011001001100100010111100001000110100000101101010001011111000000
101000011101101010111111101111011010010100110100100001011100111
11100111110100001011110100000100111110010111011110110100000001
10010110011011001111001110000111010011011010001110110100001101
11011100100011111010000100111110100110011010010010001011100
10010000101111010010101010110010010011011010001111011010101010
10101110110000011111011100110001011101010111001111101100000101
101001111111101001010101111011100111001011001001111111010011101
110110010010100100111111101101001110100011000011011001011101
11001000111100001010010011000100100111101110000101011110001110
101011011010011000111000001111101101010011011100000110000000110
11010111010110101101101001111011010110110000100010110101101101
111110010111010100000010101000110000011011011100110001010101000
110011001011010001100000011011110110101001101101000011000000101
110110011011010110110111100010000010111011000100101110000110011
11001001000001011011100101010001010001110110110001111111110
11100010110000011011000001111111110010110100000000011010110110

100110011110000001110010110110100101111101100001100101000111111
1011000101111011001001110111000011001011101000011111001001011011
1000010111011001010110000001100111111001101011101000010011011111
1111010001011000000101011110100001000001001000101001111011100000
110011110010101101000000110111100000111010001100101110100010111
10111001001110001111100110000010001010010111110010000001100000
10001110010001100111100001001110100111000100011000111001110000000
1100000010000110111001011011100101100110011011101111010100011001100
1001100111100111011111010000111010000011000101000001111100100001
1001111100111110010110110100011110010100111111111010111100001
1010111011000111110111110000110000111101000101011000000001000111
1111111001000000110011101101111010100101110010101001111100010100
11111010000001111101000010110111010001101011101000111000101110111
100100011101000111001101000111110110101110111000000111110000111000
110011110110011111100010110111011100010001110110010000011011000
11111001011001111110100001100111000110000011111001110111001000
11111101111001110010001101000011011101000011111011111101110110
11111100110010010111101100111100100101101101000000111001001011110
1011011010000110010111011000100110101110010111110101000110000010
1101111100010000111101100010100001110110101100011110110001110000
10110000010111101110011110111010001011101100000110010011100
1001100110011000011000101011011001101110011101010011010001001110
1110101011110111110100100011100100100001110001111100111001100100
1010001001111100100110010111000100111001111000100111101100011111
1001011011001111001011001000100110001000000100110101101100011101
10111110010011101101000010111110001100001110001000001001111
11011001101111000101110110101011101011000111000001011101
10101110000011110000010110111011010110110110100001110110101101
11000011101001101011001000100110111100100111001111000111101111
10110111111010110110110100110000011101110100111011000000010111111
1001011000101010011010000100111010001101111010000001100011101101100
1110001001111100011000110101011011010100110110101111111100000011
111011111011010001110100111011011001101100000100110110010001111111
11001111100010111111101101111110011011101000110001101000001100111
11100010111101001001101111011100100101011100010110100011010010
11101101101100111111010110110110100100011010001010011100011001100
1101110110000000101010100010000101001111110000111110000111010000
10100110110010101010011110000010011001100101001100101000100000
10000010011010111110000101110101100101011101110011101110001100111
1000101001110001111101000011111000100111001101100011011111101000
1111110011011101000111101101001111001011001111111011100011110
10010001111111000011111110010011100110101111000111100010011111101
1111101010010101000110001000101100110111100101100011111110011011
1111111010011111100100111111001101100000111111111101011111100011
101000111110001001111100110101111000111111111101010100110011010
1001000001000110010001001110010001111111000111100110110001001111
111110111111001101100010011111100011101000011110011011100000111111
100111100000000100001101011011100110110011011111110110111111
11010101001011010111111101110101100110111011110001111010000011111

110011101000111000001001011000101010010111010001010010100111101

100101001100101000010101111000100011101110111000101010011001001

1000001001111000010000010110010100011000000000011000001100010

101010111110010010001000001010000000001001001011001101100000101

110100101011000111001101000001000110100101010000010011101000110

110110111101011001000010000011110001110001001110010001111010110

110010111110001010110100100000100001011001001011011110011100110

111100010110001010011011010000010001001000111000100010111011110

111110111101111001000011001101011011100011101000110011000001011

110010101111000100000100001110111011001011001111001101000110010

101110110100111100001100011001110111011011000010110111101100 11

100011100101001001010001010001011001011001001010111001001101 00

110010111111100000001101001100001000101011010101111010011000 0

110010111110100010000101110000010001110111011000001100011001 0

111000000000100101101101110001100000101100100010001101110111 0

110111000100010011011101101011011110111010001010100111111000 010

110101100010010100111011011010101110101111110000100010100111 1001

101100100111001000010111001100110001000010000101011011011000 0010

110100100000010010111100011001010011101001101100110010010100 011

110000100000100001011000111110110101001010010010101110011001 1000

100010010000111000010001000111100011001110000001011110100001 1001

100000110110001010011011000010001101011111110100110110011100

101111100100011000010010000001000000010000100100011001101101 00

110001010110100001011001111011011110100101101000111011111 1011

110010110000100011100011101001000001000011000100010000100011 0000

111100011000000110100010100110101101000001101011001111011 00

110101111001001000001100000111001111000001100011011001100000 1110

111000010000010100010101110101111011011111000010010100010 10

101001001011111100001100100000000010010110100011100001011 1

101010010001110010001010010111000101101100011101000001110110 1

100101001100111001011101010101110101010001101100110110111101 011110

100101010100111011111001011101010001111000010110110111110001 0000

111000011100110011100001011011110100011011100110001100011000 11

101111100000001011001100111000100010000100110110010011101100 01

100100101001110011100100000001000100100000010100000100100111 1101

100001101110011110110000101000110010110011111100001110010001 010

101101101110000101111110000110110110110100011000110111010001 0

101111110010000100111100001101110110100011101000101011001100 101

100101101110011110110011000101111000101110010001110001101000 0110

111110010110110001100101001100110010000011001100100100100011 001

100111001000100011100010100011010000011000110010110001010010 010

111111111011101000011111001100000000110000011000101000110001 0

101011000100101001001011010000100111100011100100011101011 00

110010011100000010011100100101110110101010000000000100001 1010

110001000000011000111011101000001001101000110000111100010101

111000111100011100010011111000101011001111001100110011100100 0011

110011110010101001110000011100011100100010101011011110001100000

110000001110001101011101110111010111011010111011110010111100 0

111110010001000000000111101011100001001100001101110110011000000 00

110111011100010010000010000110010100000011010001010000110011111
110111000000010100010110010001110010001001011000001011001010100
100000011111000110000000110011100000101110010001100111101000001
101001110010111010011000000110000011111010010111110000101011011
111100001011011011010111101000100000011001100110111101101001000
101000110000001100000011000011001111100010100000101000110000011
110011011100000010001001001011111010011101100010010110001111
100100100000000010000000000000000000000110010001001111101111011
101110001100000110100011100111111010000001010100010000101000100
110111000001011100000010111001001110111010000100011001000011001
100011010010110111001110101100001110100011111101001110111100011
111111011001101111011000110001111101011001000101000100011101010
110000110011101011011011110100111011010101100111001100011001100000
100100110100110010010000100001100010111101000101100100111000010
110000111100000110111000010101001001000001000011000001011011
110101000010011001111001011010111001111101101100110110000100010
110100001101100100110011000111000110111000000100000111101100001
101001011110000000010001110001010011011011010110111111110000111
101110100110111110101100111100100011011010110100101110101000111
111001100110111001110000111000111110001110100011110110111001001
101110100000110110100011100010110110010010101110110100011011110
101101000111010001110001100100010101101100101010001001000000110
110100010100110101110101110101000101001101111011111111101000001
100111010111011110000100110100000110011101001010110000010101101
100111010001101000000010011001100110001010100011001010001100101
111100100101010100010110100111100010101100100001001000000101001
101111000000101000000001010110101101001100001011100001011011100
101011000110010111001100001100010100100010001101011111000100100
100011001110010001011000001001001101000110011100010001101000001
111011100101001001110000101110100001010101101111101101011010001
111111010100011001011011100111001101011101100011101111010010101
101110001100011111110010001010011101011111011001010110111111001
111110001101101000100111110001111010110000100001110111100111011
100100110100011001101000001110001000111111101000001110000101
110111010001000011010011001101001110000010101011001011110111
111110110101110110110000111001101100101100000000101000101110
1000010111010010110101011110110001100111010101100110010111110
111110100100101001101101001110011011000010100110111110001110010
110110011001111101100110011001101111011000110110000101000001001
101101101101101100000100101111100001101010111110000110000
111001000101011011100110111011011011111101111000111011111111010
110100101111100001010000011000000100111010000001111100100100110
101100100011101110010000100011001001010101110101011101000010101
110010011101111101011101101001011110010010011011000101011001000
100000111011100100001011111011001001010010001010110001110010010
101000110000011111101101011001000110001101100110111111000010011
110101011001000010011110001111101001110001101001000010100011010
11001100000101010100101011101000100011101000010110010000001010
100111100011100100101100111010001110110110100000011100000010000

101111110001000010100001001001101101100000111101000001101100011
1110010100010001100110011011110000011000001100110010111011011000
1001011110100011111110000010101001111000000111001000001000001000
1111010010110100010110001010110110100100011011011110110001010011
1110000101011010010110001111011100100001001101001011111011100110
1000001100100011011110111111100001101100000110110011011000011111
1111110000110110000011010111011111111100000010111001000010100011
1100100111100110111111000100101000011101001001011100001010011
1111010010011101010110011001011110101011110111001001000100000011
1110100001001110011101000110000001011101111011011011110000111101
0101110111011010010101110111011000110010001100111000100110100011
1111110000000101011011111100101101111101110100001111010011111011
100110001011010011000000001000110110100000000010010111101111
1000110110001010111011111110000011000011101110100010000101111110
1100000100011100000011110100001101010111001011010011111001001011
1101010100100101110100000100101010011010000010011010001010011111
1110001001001011010111101000001010100000100001111010000000111101
1011110110100001001011101100100110011111000011001111011011111101
10000001001110000111101000110011111000011110000000011001010010
1011100011001110000011011000100110011010001011000110110000111011
1110010001000001101100001111010111111011010000110001001011101
1010000011001000010011010000000101101001111011110001111111000001
1111110000111010110010001001011000001011111101000100110101000101
1111100010110111000100010001010011001111100000100110110101110001
100101100101000011100010111100010111011111001011000001110000110
1011100010100110011101001011110101001101110001111100010011111111
110001011011000111100010111110110011111111101000011010101101000011
1000111000001100100000010110110110110101111110000000000111010001
1111101000111100110101101001011011111111010110100100010010000111
1101010111101100011011010111110000000110100101001000111110100011
1111011000110111010001001111010000000111110110000010101101100
10010111001101101001010110111001010010000000010100100011110001011
110010001110101111100111101100010001101010000111010110001011101
110100010100001001001000100001001010110001100100011111100000011
100110111100001110110010001001010111011101110010001100110010010
11111111100010111111100110110011101111110010011111111010110111111
110111100011110001001111100100111100110110110011111111111010101
1110000010011011000011110100011111111111100001010100000100
1111001001000111111100100011111110110100010100011101101000011
100110110111001111110010111111111101101111100110111010110111000
11111000100111100110110110101111111011010111111101001010111111
110100001111000010100000100110111100100110001010100001111111101
10100110101100011001101101101100100111011111001011001111110110
10101001011011111100000111000011111000011100100011110101001100
11111111001101111111101011111100110110100110111001011000101100
11011110010001011111111110010111111111111010111111111001100110110000
1111011010100011101011001111010110110100101000000111101011000010
1111011010111010101101100010011101101110000001001111000010100000
11111111011011111100110110011011101001101000011000111010111010101

110111111001111001101111110011011111100110110111001111110111
110101011000010100111011111010010001001111010001111011000111 10
110100010111111111001111111110100111000010000001101110101111 00
100101011000010101111011010110001100010010111111111000011
111100101101111111110001010011010100010101100110100100101011 1100
101111110100110000111011000110111000010001100010010000001111
1000000011011111111101100011111101111000101011111001111011 01
110000101011011101111011101000111011100011101100 00
100101111110100010011110001100110011011001100011100110001001 011
101110010010100000100011011110011100110000110110111100100011 1101
1000010100001010110110110100101110011010001011010110010010100
100001001101110100101111101001011100000111111100011101011111 1
111000011010001111001101110111000010111101110001111000011011 0
110100101111010010111101011100000101110011111000110110011111 1100
110010010111001001100101010010001110001110000001011100101010 01
111010001111000110000010010010011011000100000101111110001101 0011
111110111100101000001010100110110101001110000011011100000010 000
100001111000000101000000001010110010111010000101101000000110010
110010000011101000011111100101011001110100001100110001011110 110
101000111101000111001010000000110000101111010000111100000100 100
100111010010110111001110001111110100101101100100010001111000 01
111101110101011110100111111101010100011101000001110101111011 100
110100001110101101100010001101000101000111101110010110111111 0
110001111100000110010011001001101111010100001001011011101000 0
101111000010011110100111100111101001010110110010011111110110
111111101011010110100000011100110011110100101110110101111101 1010
111100011001011001000110011110110110001101110111101001110011 100
111110110110111100001001111100000111101000111111000010010100 10
110001101100010110111111101011010011110110011110011100110011 011
111111111011001101100000101111000001101111011011001010110111 00
110011011000111110001011111110110110011000101100010110011010 011
101100010000011101000000110110100110110000000101110000001111 0001
111001001110001000010101110000000110011000010100110001011100 1
111000100101101100110000111000101000011100010111100011011001 101
110100010000111011011111011111101111101111111101101111101110 1111
110010010110011001111101110011011110110101101000001111101101 01
101110011110101001101101111101111100000011111111110111001000 111
111100101100111100001110100110001010101100001100010111111111 000
100011111111110000001011001000001011110001010111110001011001 011
110001011110011100000101011101100011001011011000100101000001 0
110010101010101110010000011111000111111101111011111010010110 0110
111000000010001001010011001011110001001100001111100110011110 0
100010110100010001111001000011001111001111111100000110001110 0
101110110001010101011000010100111010101110011101001110001110 100
101001011111001101011110001101000001000110110101101100111010
100011111100011010111011000100001011011110110110011100000011 1110
100110100110011100011111101101110000010011001100101000111110 010
111010010011001001001100110110000000111100111001101110011 00
110000001101000010101001010101111011101000110111011001101110 000

10110001101100110110101101111101000011111111001011101010010011
10000001110001011011000100110010011100101110001111110001010010
11011111011010011111011101011101100001110101100110101110001011
10011001100100011011100111100000011110110110110010010110000000
10100111001010011000100010111000101000111101111111000001001101
110111010110111011010100010110110110101111000001101100
100001111000001101111000100101011011101010111000001011111
1110111110011101111011000011101101010111100001111101010000110
10000001110000011100000111110100111000001001101100100010111101
11010111101101110101111110001011011101001011010010101000100111
11000100011111111110010011111100000110011110011000110010010100
10000011011001001001111101001011001011100011011101101101010001001
11010110010001100100011011011101000010000100011001011101111111101
10110011100001100011010001010100100001100010011011111110010110111
11111001111011001101111001000111001111010111111010001000011110000
11111111010001101110110000011111001011111001111111001111111001
11110110100111111001010100001011111110011111110011100101110100
1011001011101111010000011000001011010000011010011111010100
1001101101001100111110011110110110010110110000000011000000010
11001000101110001110111110001010111111011010011011011010
10101111000000001000011000100011001111001001001011100010011011
101011001000100001010000010001011110111100101000101011001011111
11111111010010100011011010010100111011000011110111001000000110
11010111110111010010110100010001111101000010110000000001001101101
11101101010101100000101111110100100000111001001101101001011001
1100110001010011110011101110100001101101100111000010110111000
11100111011111001011111111011100101100111001110111001101011111110110
11001111001111010011011001100010110011101110101111100101111111111
11001001110111000011001110010000111001001010111111101100001111011
10010010101011100001100110011100001011001100100001110001101101
11001000011011000010101011011011001011001011001000101001001010100
110100100100001011110000101101110001110101001010101101010001001
11101000000011010000010010010001011010010100011101010010000100
1001100000010110100100000010100000010100001110100010100001
10010011001000101000101001000110001101101101000000110001010000
10100011000000111010110110100110110100010100001110100001110
1000110100101111000100100100000111010110100110100100111011000100
111000100101001000101100100100101101011100101101010001100011101
10000101100110111110011011011100001101111001110010000110010111
110101111111111111010010111000011001110000110011100001100110011
111100100001111101110001101110110010100010110111011111101011111111
11111011010111110111110111001011001111101111101111011111001101
10110101010000011001111011100100011011110001110010111101110111011
1010100010000010101001101101000111110000110110000011000010010001
10110011011010001110001011011011010010101011100001011011111100111
11101011000101011101101011110110101001001110000010110101110010
111011011000001010011100101111011101011001001101101100011010100
111010110000000101111000010110110101001101101000011111110100
100101101110000011111111100010011001011101010010111100010011110

111111000110001110001110001011111000111100110100001000111111
111011111000110111011001111110101001011011000101011010111100011
111110000111011111101010101011011010101111011110100010011010010000
101001111101010111101000011011100001011001111010110110100011011
111101000001100000000000011000101011101000110110000000101110000
111111101010111111100111110111010111111010011110100011111101001
101111111010110000011011001111110011100110011000111011001000111
110011000011011010101100111100010101001011011001011111011111111
1001101110111110010110011110010110011000001110101110110011011
101000010100111111110110010111110110001011111111010000100100
1110001010110001110000001010000011010100111100011010101101100011
110011001101011011110001110000010100101100010011011110001000010
100000011011000111000011001010100011110111100011110011010101111010
1000110011001001011001111001000100111001011110011101101101101111
110001100100011111100000101010001010110011101111111101110101111111
100110001110110001010001101101000111101100100001110111011001
10100111011000110111000001101101000101100011100000010101011
100010001110011110110100100101011011010101001011111010000010111110
110000100010011010001110100000001101000000011111001010011010100
101001010110001001100101001101100000110011100010011110110110100
11000110110001010110001000001100100000011101010001101110010001
110111001001110001110010001010111000011000111000011100000010
11100110010110100111111011000100000100000000111011011111101000
1111101001110111010111011111000010111101111001110000110110011
1110000010110010010011100000110111110100101100111100111011100000
110001101110010010000000110010111100101000011110110011001000000
111011100101001100010110100111010010110101000111011000101101101100
111101101100000010010100111101010011111101010011111000100111110101
10111111100110010101000111101000111101101001101100100100110111
10110100000110111101001111100100101001011001011001101010111011
111000101111101110110101110101011110010010001111001010011100001
1110010001011001000111011110101111101111010111010111000010000
11011101110111110111001100011111001111101101111011011111110110
10111000011111101000110100110011011111111101011111110011101111
10100001111100001101001011001111110111001111110010101111111100
1111100110111111001101111100110111100101111111001110001010111
11010110111010011001111011100011010110010000110110100101100111101
11101100111111111111111101011001001010111001010111111100101111
11010110010010101001101001000110011011001100100111111000111100011
1101100110110011100011011110001101111001101010000101001011001
110110111110001010001101110111100110110000101111100010110110
1001101100111100110111111001110000010000010110010010110100000000
1000110001110001110110001001010101101001010100100101001001000001
11001001011011101000010000000101000111001111001110110001100011
101000011010011000100000110000011000101000010001000001011101
1001110100100000001010010101101101010011101010011110010110000001
11000011001100100011011110011110011101101101001100001101010000
1100110110111110111010111011111011101110101101000101001101101101
10001000000001110001000100000011001101100001000000110110010011001

```
101001100001010001100000111110110001000000001110110101000001
100001011001010110111011010000101000110011110101111110010000011
101001111010111100110111110111011110111011011000000101101101110
100011001001101110110011011011010110001101100011101011001011011
101000110000100101101111011111001111001100101000010101011010010
100110000100011000011101101010101100001001010100110101010101111100
111001011100000100000101000010010110100001111010110011001100001
100011011011010011011011011110010010011010010000011000110011000
110110101001100011000110000001000001001001110001100001110100010
100011000001000101100001010101011010011010100100011100001001100
1001101100011100010000000100101100111101110111101011111010111110
111100011011110001101111111010000000101011110000001110110001010
1000001100110101010110011011011000100001100011001000010101010110
101001001100110110111100111101111001001001011011100000100111000
1001010110001000001001011111010010000110000110000011011110110011
111010110001010010110101111010010001110010000110100000001111000
101110111110010111011101011110100011000101110000101111110100
101101111011011101100000010010101000001100001111000111000110110
100101001010001010011010010010010000100010000011011011001111
100111101110001010110011010110100110010101000011001110110110
101001001001101111000010000010100100011001100110111011111101110
110011100100110110000011100000111101100001000000110000110001101
111011010001100110011110000111101011010001100100000110011000011
111111001110001010011011001111010000000110110001111110100100101
111000001001011000010110110110101011001110010010100000010011
111100010100011100100101000100001101101000110011111001111010
100111110000000101111111001010100100111101001101011110101000
1111110110011011001010010111101110010111011010010100000001001010
100000100101011110111111101011101001100010110000101100110010101011
100000100100111101100011101000110001011011010011010100111001001
111110110011111110010111100111011001001011000000110101101011110
101100100101110000110110011111101100111111001001111001101100110
1001100100001100010010100000010000110000010001100100000101111100
101000011100100100010001100010100110010000001010100111000010
100100100110100100101101010110100100011000100111001000011110000
1011000001011110110100101001011100101100001001000000101001001000
101011110111100101111111001111000110111100001001001000000100000
1100010001110001010011011101101101010110000110011010011100000000
111000110011110111110011011100001011010111010000100011001010000
100011100111100100110000000100100001010011100011000000111000101000
11000011110010011010000101000101110000010011010000010011111001000
101111011100101000111100111000011011010010101010011101001110010
101100000100101011100011000010010110100110110010001101000011100
101100100100111011001001110010001110110111111000000001010111100
10011101100010110000001100010101010010001011010001100000011100
101000101011011001010111100101010111110111111100011000111001010110
100000011001101101101010110010001001001101001000011100101011111
101001111000101011110000101111010011001100101100010011001100
110001001001111000101101010110100000010101010010000001011000110110
```

110111100001010010010001010001100010011010000011110111001111010
101111001111110011110001100011000000101110100011011110110
100011100001010010000010101110110101011111011100011000110111011
111111110000001011101000100010110010010110011101101000101010101
111110110111110011100010000000010011100001111001000111100100011
111001101111110001111101011111101000011011110000111111110000100
110001011010110000100111011000111011011101100101010001100010000
111000000010001001010100010001100110110010010010010111110101
100101111011000010100000010011101111111000000111010001001010
110001110011001011001001110001101010100111010001100100100111
100100101110110100001011110110001101010000011010110111011001000
101110001001000101000110110011001011111011101110100111001100011
111111000000110011100100010111000111111111011001110000111011010
111111110001001001101011001000001101101001111101110100110110100
110010011000100001100111011111100011011101000100111101010001110
100010101110110011101110100000101011011000100011101110111111
111000110110000010110011110101101010000010001111100001111010
100010111110010010110011000001011101111010010001111000000001
100011010110110011110001101010000101010101001000001101101101001
110011111001101110100010111011010110111100000011011101001110101
111111101001101011010001100101100100100100111110111001001
110000110110011111110101111011111000110000000110101110000001100
111110100001011000000101000111100000100100011000001101111011001
110100000001100000011001111000101011100010001000000110011001
100010011110110001101110000101000110010010011100111001011001
101101111110101101011110000111110111001101000011100000100
111000001101111000101000100111001000000111011001101111110110011
101110011101010001101111000000111011001111111101011101011100
111111110110010011100011001000000100100100101001010000000101110
101110001000101001110001010010111011100111001110000001110
111000001010110101111000010011100010000011000000100000110
101111001110000110011001100010110010001011001000100101100110
110011011110100011111101001101101000010111000000101001100100
111000000110011011010010100011101100011010011011011000101101
101100111101110001011010001011110000001110111011101110100000
111010000011100111010011111110000101001010110010000010000000
111001110001111010001101111011010110001000101001100100111010
101011110101101100111111101000010101110100110111111001011000001
111011000001110010001010011010110110100110011001111000101101000
100101100110111000110111000111000111001110100011111101011000
101000010101101111010101101111101110001000100000110100010010
110011100110100010111111011010011011100111101001100011110000011
110011101101111000001110010010111101010100001011001100011100
111001111111010001110111110001110101011101110100001000010010
110111101011001111100010011110000001110010011110110010100011
111110001101011101001111110111000011110010000001110000101011100
100111101111010001100111100011011110100001101110010000011
110011110100110101001100110101110101011001001010111101001000001
101100110101110110101101110000000101111000101101010111100010

111001001111011010100110011011000110101110100011111101000011110
111100100111001001110001011010000101111011000000111010011011
100010011111000011010111000101001100010011100011001100000011110
111110110011000011100000011111000110010010110110110100010110
100000010010010001100110000111000001100000010110000001100001101
111010001100100011010000110110101110000111001001000100010101011001
100000101100000010111001011111110110000110011000010111001111101
111110011110011001001111111010010001101000110010110010011110110
110100110100010100110011101011011111010001100111111101000010011
110110001101111010001100110111101101100011000110011010101101
101110110100111001111011011100000110011101000110101000000101000
110000000101110001101100001111101000101111010110100001011011101
110110010010011011111011100101100011110011100110100100101011001
101100010101010011100010111011101001101100010101100000100
110110100000001000111100100111010010010100001101101100110
110100111111110010111001110001011101001101100110010001101011
100011111100000101111010001101101101001111100000001000111110111111
100000011010001100110110011101000111111101100100101100100110
100010011101010101111000000011110111000001110010010011111101
100111001110011011011001001011011000110110101110000011001100
100100110100011100110111100110001110001000110111000110010001111
100000111111100010111110111101001101000000110111110000110001
110100000100000011010010101000111000101000011110110011100110000
110101001110101001111110111110110000100011101000110001110000011
111001101110011011111111101110011111101010100111110011011000101
111111000111111111111101010110110100110101000000011010110001
111101111010000110111001111010111001011100111011110111111000
110000011111111100101111100100100100001100110111010000001110
100011000011110000011110100000001100100011101110011011101010111
110010010110110110000011110101101101010110110111010100111100
110001100000010001010011011000100001101000010110100001100000101
110110001101111000100100110011010000011100000111011100011100
111011011111111101001111110011011101000110110001110010001111100
1010101011010011110010011010011001010101001100010010010011111
110110110011111111100011111110100111111001000001100010110011001100
110010010000111001110111101111110011010101000010110011110101110
110111100011111111100001111111100101011111000000100010010011000
110000111101100111000011100110110100101111000101111001100111100
110000111110010111110110001101101101100000001001001100110011011
100111011001001101111010001011011010000000010011011000001011110
110100010010110010010101110001110011110100100000101000111100101
1110011000000000110010100011111000111011010111000110001101011
110110001110000001101100000111011011111000011111000000010100011
10000001110100001011110001001011010111001000101011011001110010
111010101111101001110001111100010011101111001101110010001001110
110101011101111000011011001111100011100101110100010000000110
101000011010000100100010000011010001111011001011011110011100101111
1001110001111100100111111000101001001011001001010011101000010
101111100011100001000111100111100110011110000111110000000111111011

100101100111011001001101000111100111011111110011100111011001
111011110111010111001101010010000011101000110110100111011100
101000011111011001111101110001001111010001000111001000110110000
101110010001001110100000010011100110011001110100101100010100110
111100101101011100000011111001000110011100100011011111101100011
1010000100100010010011010111001111100011011000100010111100001101
110011001001011100010011100010100011011100010010111101001011011
100011111101111100101101010011011000110111100011110000010010101
111000011101101100010001101000101111011111010000111011000111
100111101111110100101100101100101111110111000110010010100011001010
110011010100000011111101101000000100101101110100111011011100010100
100101011011100010100101100011001000111111100000010101001111101
101011111100010001100001011110110000000100011101000011000011000
100001111101011110111000011101101011100100001110000000011111101
101101111001101100010101110010011100000001100101110100111101110
101111101110100001110000001110000101110111001000010101001110100
101111101100011111101111001100011100010101101111011000110100111
100110110001111110001110111010000011010011011001000111110011100
111000001101001100110011010011001100110011001010000001011100111
101101100010100001100101100110011011100111101100111001101100011
111010010000001001100010100111010011000010100100001110100001100
1111000001110011101100110001111101111111100100100001111110110001
110011101100000011000001101000101111011100110011110000100
1111000101001011000000011011101001111001011001011110100011011100
110010011110010011110110100011000100010011110001110011100011100
111001000111101111000011011011100101010101101000100100100111
110111000011001111101001110000110000011001101111000101101100
11111110101101001011011001101101011100011111000110001011100101011
111111010010111111101100110111110010111011001000100110110110011
100000001100110110101100000001100001111010000101110011100001001
101101001000100000110000111101010001001000011101011001001001101
101110111110011011110010010100111101000011110100010001011101100
111110010101000010001010010000100110110001000000100100010010011111
100111110000101001011001001111111001111111111000010001101111111
111001111011011000010001001110110011011011110100001101100100110
101110100100011110001010010101110001000011010100101100111111011101
111000101100000011001001111001110011011101111001010110000110111
110000010010000001001011000011001001011110000010101110000010111
111100010111000011011011110010101001001111100001011110110010011
100111100101001011000001011101110111111100001011101110001010101
111101010011011001001101111010000001110111100111011001110000011
111101001101111011101110111110010011100100110011001100011101111
111110111010000101111001101101011011110111000001001100010100111
100110010010111000111100100100111101000101100001110010000001101
101111111011010000111001100100100000001001110101011011110111011100
110110001101111100000110100111010001010000111001000001001111100
101101011100110011101111100011100010011101100011011001101011111
100000011001110100000011001101011011010011011010111000001110000
101000001000010100111110001011010100010100000100110110001110111

11101000010011110110001011111101110101100111010010111101101100011
11100000110110100010101110000100011100000110111111111110101010
11101011111100010100001110010011011111100110111101111001110110001
10001111101001101101111001001000011011001101011000110000100
11100000011000101110111001001101001101100111100111101001110100
11001110100111101000110000110000011101000010110101011011101101
10000110010010111001111000001010110010010111011010100111000011
11001111110110101010000110001001111111111000011001011100000
11001011001111111111010011011000000001000110100000110111010111
10011110000110000111000101010000011100101101110111111011001100
11000001101000101001101011100100011100000010010011100111100001
10001100010010111100000100010000001100111111001011000001011001
11011100010101101110110010011000011110110001100110110000001010
11000101000000101110101011001110110111001001011001101100110001101
11010011100000010101110100001110110100100001101110001101001110
11110000101101101001011100111000011011101101010111001100000
11000110111100011001100000110111100000101000111100101101101001
11101011000001111000010111101000101101111101100011101000101111
11011100110110011011001100011001111000110110100010011110000011
10010111111101101000011111010100100111010011001001111001011011
11000111011010010101000010001011010001101101111110010110111101
11101111100110011010001011001001100100111111101000010011110000
11100100011110001000010000010100110010001100100011011011011101
11111000000011001110100011011010110111110100011111100111101
10001111101011100110100000011100000101111101011111101110010110
10100111000011110000111110110100010111001100000111011101000101
11011010111111000001011100011000001111011110001101101101001111101
1000010111100010011011010011100111011100110100001100111101100001
10111110000010111001000010110110110001111101011011110101100100101
11100111100101110000111101100100011010110010000011111010001
11110000001100111011001011001100100110111101000011100011001111
11011111000010111111101011001101000010000011000100101111000000
11101010101001101100111100001010000011000111111100001110011100
10011110001011100010000011111100110111101000101110101011001
11011111001110011011000001100011110110011110111101100011110011
11010100110011110001011111111110011001101100010010000110111100
101111010110001101101111010111100101111101011100110110000111011
10110010001110101110001110011110001111100110110000010011100
101110110001011110100101111100011011111000110011111000111
10111101000101111111111010010110011001101000010100100001001100
11111101000011010101111100100000111010001110111110000111101000
110110010000011110110011011101011010000101001000110110100100001
1101110110111100010111010011001100001000010100011000100100001111
10110010011001111001101101011101111111011101111111011101111110101

111110011011110111111111110001011111110101101111101000011111100
111110011011100110111111010010000010000011111110110101111011010
111111111010110100010110010011010011001111110011001111111011001
101101111110001111111111100110111100101111101001011111110101111
110011011001101100111111010011110110101111100110110110110101111110
110011011100100111100110011111011100111110011011010100111110110110
110110111101011000100001010001111111000110111101011001000000 1
110111010000010101110000100110100011001010100111111000100000 1
111111100001111111000101111100110110000011110010001110100001 1
110011001111100110110111001111100001011111000010111110011011111 1
111110100111100110111100110111011011011000011101001111100110011 1
100101101000011000101010111100011010011101111001111100111011
110110001010011000101110011100010001011111010101001100101111 1
100110100011000010001100110111001011100101101100110100100110110 0
101011011110000101010001100111011101111000000111000100011000001 1
110010111000001000111100111100110011011111110001001010011 0
100111110100110110010100101101001011110001100010010000010010 01
101001001100010100101101011111001011101001011100110100000001001 1
100011110001001111000100111110101000011000101101001010101011011 0011
101110000100001001101100100100111110111101100110010100001010 0111
100100001000011110000100101100110011110111011101111010111100 11
101100000011100000011101111110010010010111010010010010000110 010
100011100101101000011000011111010011001100111000000110000110111
110111110111010011001101101100100110110011000010100010010 1000
10000001010011001100001001110001010101111000010100011000100111 0
101100010010001101000111010010100000011111111011000000111111 100
110011000111001111110100000100110000000100010100001101011001110 1
111000111001011001111100111100101000010001100111000010101101
101100001110101010000010001011110111101100100001100001011000111
101011100111001101111000010110100001010101100011000001110000110
1100101101000001010110011111110100110100000011000001001000010001
111101011100011100011101101000101001010010111011001110110110111
111111000010111000001100000010000010011001000111010000111 10100
110100001000100100100100100110111011110010100101100010 10101
111010111101110000111010001010001100000111010001000111 00111
100011011110000100011010110101011000100111100101000011000010 10
101000101110000100001001001010000101110000011001100111000011 0100
1001000110010111001100101001011110001011110001011110110 0000
110111111101011001001000001001100101110100001100011000111 0000 111
100101011100101001001001011001100100001000000111111001011 00
110110111010000110001011101001110000111101010001001101100111 101
1101100110011001001010111100100101010110011011011011010010100 101
111000111110100010100011010001101000011110110001111010000 101
10110100101100110010010100100000001000101011001011110 1001100
111000001001110011001110110000100100100000010010110000000 110001
100011001010100101110101100100000100011110110000110100000 10001
111110000011011100011011110001100011110000100000000110010011
101000010101110010010010110100011010010100001101010001011001110
1001011001110001100110101100111100101001000000110011101011100

111010000111001111100110101000010101000100010101010101010100010
110010001111100001001110010001000000010000010010111101000011100
101111101100100001011100011001100011001110011001100000111010001
101000101011101100001110000011010101000101010000101111001010
110111000100100110111100100011000101111000011011000000010111001
100011010000100010110001100000010100010001100111100110010001100
101000001010001110100100010100110111100100011010010000000000101
110100001100100110010101101101111000100010110000101101010000101
100110110011011001001100000010011110101100110110000010010010110
110100001110100111000001101111001001001111101001111011001001010
101011000011111010000111111000001000000001000110111111010100111
100110011000001110101111111011001101111011001000010011110000010
110000000001001110110100010100111110001101010001100111111111101
101011000000001010101110011100101100111011010110010001010000101
101110100111000000110000100001001001100010110010000100111000010
101100011001011110111001010011011010001000011100010001001010111
111001010111100001101100110011011010011000001000000010001100001
100111110010101110110110011000110011111000010011000111001001011
111110111110011001101111001111110111110011111100011010011001001
100001001011011100111000100000011001101101000000100110110010000
100011110010011010010001001000101110100010100110001110000100100
100011101011010110010001111100011001011101101000110010000010
100110110001100000111000011110100000001001101110010101011100110
101011001001111110000011110110100000000001100110010010011
110100001110101111101001101010101100001010011000111010001110000
101101100011110110111001100000010110101100011001010111000001010
100111001000110001101011101111110111011011110100000111001101100
101010000110111011011101100111110110110110000000000010001111
100010111101010100101110111101110001100010010110010001001110100
100000100110001100000111101101111110110111001011000001111011110
100001101111011000100011100100010111110000001101000100101000000
101101111011010010100000001010101011000001010101110100101101111
111100111110001000011001110000101100000110011000010111010111011
100011110110011011001000110001110000010001101001110000001010010
110111011000001011010001100010001101111000010001000110000001
110011111110000010001001000111001011001100100010110000001011101
101011100001001111000100101100000111000011001101111111110100001
100100101101100011100001010100111000000111100011100111101101010
111101001100000011000101110011011011010001101101100100101010111
101111111000000101001110001000111011111111110001011100001110110
100100011000110110100111101110000010111010000111001011001000111
101101000011000101001110101101100011100011011001101110000010100
100100011011100001111001000110101001100000100011011000001101010
100011000011011010100011101000001110000100011000001000100100101
100000001011011111000010100111010011011001011000111010100
101111111010111111001000111111100001101010101111010111011100001
101001100010111101100011001101110010011110110000010101110110110
100011010011100101011000011010001110101110110111110100101101100
111101110100011101001101001001101010010011001011010111110101100

11011111010011001110101101101010011100000011000010001010100001
11001001000011101101100010100100001001001101011101010010110
10011000110011010111011010001101101011011110000101011010010
10101101101000101000011101001111101001110011100011100111110000
1000011100000100110001001001001011011110000110101001010011001
11110100000110010010101011100001110011110001110000100101111111
11111011001011101011110100010100110011100101110010000101010110
11110100011110110001111010110111001111011010010011000011011111001
11100100111111000001100010110110011011001111101001011101101000
110010111110011100011101111000111010001101100011100000010001000
11010000011101111001111000100111101001000011000100011010001111110
11010100101001011010001101101100001011011000101000111110101001
1111000001010111111000011110111101001100011000100100011101110
11000101011101000111111000110011000011111011000011100001
1001100011110001111001111001011110100001101011101100101100001000
1010011001000001110111111101000101001101100110111111001101111100
10110011001100011111110000111010000100100011110111011001111100000
100001111101001011011010100111111101100011101001100100011101101000
101101111011000111011001001110011000100101000101110100011100111
10011001001101000011000111101000000011000010011001000001000101
111000011011001011101101011100110011000110111100100011100100010
10110100001010011011011100000100101001010100011010101110100011
101001000010000010000001001100010101110110001100001111111011010
1111001011000000101110111010001111100100011001110010001010011000
110100001101101011011011010110010111010001100010111111110010110000
1001011000110110010001001111100111100111100011111000001010011111
11100000001000101111001010000001101111101101111101100100111000
1011110001101011110110011001100000010100110000011011111001
10001111010000011011111100000000111110010011110011001100111100000
100011000100111000010101110101100101011110001111110001110001001001
1001001010111000010110011110101110110100001111100010011011100000
1110110100011001110100001101101000000011001000001110010001001
11000000010110110101111011110001011000000110110100010011101
100110111000010011000000101011001000110010101011110000011111111
100001101011111100101010011011001010010010011011001101110110100000
10000011010100111111000011101101011011011010001011000000101011111
11001011101111101001111011010101111101001100010000001100001110
11011111110010111100111000000111110100011011110000110111100011
110101111111011001110100010110011111000111100000101101101000000
110001010010001111100001010000001010011000111010010001111100111
10100000100100111001110010001011000100101111101111100111000000001
1101000100110010000011011101011111100101001100010010110111111000
10010111100010000011111101100110111110100001001101100010000001101
11110011111111111110011111110000101111110011011110100110010101111
110001100100011001000110100011111101001011111110010111110011011
11100000111000000111111100010101111111100000000100101110011011
1100101111111100010101111111100100111001000011111010111011111111000
101100110111011111110011011111111110000101111110011011101110111011111
100000111101000001101011101001100000000011011110001111110111010100

111111000101000111111010001111001010110100000001110100000000001100
111000001100110010111101111010000100100100011111110001100000
1011111001100111111100011011111111010100001100010001010110000101
1010101111000010101100011111101100011111101001011111001101101
100001110101101110110100001000011110011011101000010110010111
10001101001011111101111111110100110001110011110011010001000110011
1111111101111101111111100001111111111001001110111111011010000010
1111000101011011000000100101110010000000110010011011110000111001
1111111000110010011110000100101001010110011101001001101000100001
10111011010100110101010110111100110011111100100011010101011111111
10110110101101101011011100111111000001100011000001101110011010100
1100111010100010010011010100111011000001111110000010001110100101
10110100000011110110001000100001110001011101011101000111000001100
1111010000001110000101000111011001000100011001000000111011100
1111101101101011000000111101010110111010000111100000101100000010
11011000100001011010001100110110001010000111111010000000101
10000011001010101111011010101111111000101000111010010001011111100
11110000100000111100011101110010001101100110001000001111100100001
11001101001010111011011110111111101111100011000001011111001001100
11001000111101100110111101111100110000000011111010011001000101100
100101111000101010110000100110011010100111010000110001101100100
11111111000100111110111010110101000010101011111010100011000000
1111010011000101001011011001111100001111010000000110001010110010
101111011100000011110110001001001111001100111001001010111101
11011110110001110011100101001110000010100111111100000011001011000
10110001011100000001100110110010110111101110100010000011011000001
100100001110110110010100110100001101100001011100000110010011010
1001010000110110101000000110100110011011010011111101000001101000
1111110110100000011001111011000110000000011000011110001100111000
11010110111000010101110011110100010011011000101111101110001101000
11010110000001110101111010001110001011111101100111011100011011000
1111111011010101011101000111010111001011011101001010001111000000
110001000011001111100000000011000000111011101100011101111110100
101101110000001101001011100011011100000101010011000100010001000
1011101000110110011011001101111100000110111000001100110110001
111011000011011001101001111001100100100110010000100000010011100
11001011101001100010011110110010001100110110101111110001000001100
1101000010110100101100111111101011011100000001110111000011000101
11010011111100001001110100001110101101010001101111000111101100
11111011000100010100111010011111010010101001101100011000010111100
101110010011101110100000101101100000110010010101000001100111110
1110111000011011100110101110000001111110000100011101001010000
11101111000100001110111111011011011111001000010111010000011001100
11011000011100100111011111000000111001100111100010100100010010000
101100000010001010011100110000001101101011001011011011101100
1111100010110110110100011011011000100100111111000101101110011000
1100010011001011100010011111011100111110110110011111110000001100
110001101100000011101111011011010111111111101011111110000111101
1111110001100111100110100010110001001011001111000011111111110100

111101100100100110110010000110000110010110110001001011001001 10
101110101000010101011011100100001001111000100111100000110101010
100110010011110110100011101110000011010111100010011011111100101
110001011110101000010111000101100100101101101111011011111101010
110111110010001100110100010100110011010001011001111110010110111 1
110001110110001110011101001011101010011000110110100000000000110
111100000110101110001010101111111100010011100000110000110100101 0
100101100101100000101100000110001101000011100000011011111110010
110111110100101111111011001111101100101100100011001000110001110
100011110111000011011010110011000110010110011001100000001010011
111001011111100010110111100010010011001001011010111100000011 11
111101101110000010100011111111111111000101111111010001110000 1111
110001011111000001110111010011101011100110100100111001011001 1110
110000111011010000111011111011010010111000000000111101000110 101
110111000011111011101010110000010111001101101010111110000110
111001000101111001110100100100101101001111010000111101001111 11
101001000000011110111111011111110111001001110000011010010110010000
111110110101000011000001111010111110011101100000010001101110 0110
111100110011000000111100001000010101111011110001011111110010110
111111000111001110000101111000101001010111111011001101111111
110001111110101110110010011000000111100001100010010000011 0111
111001000011011111001011110010011001111100101111001101000 1110
1000010001010000110011000001100000101001101101110010000 1
100011101100010011001111110001101001100000110101101101011 00
110101001011001111100000011000000111011000101110000001110100 1111
111010001011110111100000101000011111001101001111111100011110
111000001000011101000010010011010010110100011101010101010110 100
101111101011010010110010111111010010111110000001010001110010011
110001101001110011110010001100111100100111101000101011101 1011
101010010100001110100111101110010110110101010110000001000000
111011111001000100011000000110000111000101110100000110011011 100
101101000110110001100011101000100101010010101000010000110011 10
101100110111011011011000101001001101100011001111000000010000 110
111000000011001001111111000011100001101100111011110010011100 100
111000011111110100010111000000001001100100000010000001110100
101100001011001110101001101110101011100001111001111110001 0100
110110100101110010000010110111101110100001101011011001101110 000
100011111011111010101100000000111001010111000100010001100010 111
110001110110100111101101000110011110000001101000011000001110 0
110001001011110000001011100100101100011001011110000011011000 00
101101010100111100001011011110000110100010000001000110000011 00
100111111000111001111100100011000111000011100000011011000000 11
110011111110101110111110000110110101111101111110000101111001 0011
100010111111001100111001001110111110001111101011110111011111101
101011100111110100111011010000111001110110110110010010111000 0111
110110101110111110110111110101111101011100111111100100111110 110
100011001111110100110010011000100000101100100001001001100010 000
111001000110111101101010000011101000110110111100010011011 0
100110010101001001111000100100010111101110100010011111010000100 1

11100100000011111110001000011111110001001101111001001011111111
10011011011011000010110100011101100011100101100111000001111
10110011001101100000001110111110110110011010111011000101011011
11111011111000011111010011100011000100110000110111110000111011
11100111100100100100010010011101011011100010000000100000110100
11111011010101100111011101111001011001001111110000001011011101
10000111011001011011100011011010110000010111011001000111101010
11011100111111000101110110100101011011101000101011000011110110
10001100011100000110001110010111100000111001110010000100101100
11111100001100010111111011101111001110010101101000101101111011
11001011000110000000101011010010001111001001111100000011001011
11001011000100111011101110110110101110110000101111010000110011
10101100000001111010000100000001100111011111101010110100000110
11101111101111110111010111111100101111101010111011100011100000
10111010001100110000010101001111100011011100000111000011001010
10000111111000011101011101100111110100011011011101001111111011101
11011001100101101000001101001010010100111010101001111010000111
11110011000001111001101111100011110101001111100010011111001111
11111011101011100010010000011101000101000000011110111101010111
10111110011011100101110101100101010100100011011111011101100
10100101000111110100100001010001000010001000010111110110011111
10101100000100100000111111110110111110111000000101010111000
11011001100011000010000011100011010101101101110010111101110
11100111100111011111001101110110011100001011110000101111001
111100101101011100110110011011011100000111000110011001111100111
10101101000110010100001111100001100001010111011111101011101010
11011010010111100111011111001100111110011000000010011010111010
11100011010111110001101100110111011111011100111110011011110
11011000010111100000001011110110010101101111011100111101110
11100101100110101100001110001110001111111100101111111001011110
10111110110011110011011101100111110110111100110011110001001
11001011000000101001101100111011100111100101000110011001011010
10000011000110000011100011011011001011000110100011000100101011
11001010000001101100101011101111100010001101001100001101000
11000001000011011100011011001101111001110001000000111100000111
11000001000010010110001110110011110110110100010100101100010
11100011001100110110100101100000010011110010000010101011111001
11100110011010110000101010101100010010100011101101001110101110
10010000101001000000100000110110001000001000001010001000101000
10101001100111110111110100000010100110101100111000111010010010
10111000101110000100011000010000110111011011010101111011000111
10111110101101011110111011011100011101111110001000011101100010
10110011110110000100100001100110001001000111000001001000100100
11100100101001000110001101101111100000010111101000100110101001
10001010101011111100010010110011011001100011110101001101111001101
100110110000000100010100001110111011010000101101101111110000000
110111010001110000101001101010001001011101110110111100100101101
10000100001010010010010001010000111001101111100000110110011010
110001100110010011001111101111110001101010000010110100011000110

110011000011000110000000010011001011001001000000001000101001001
101100100011101101010101011010111100001110010100100011000010100
101111011010111011100100011011110111011010010001000010001100
111100001110010111010101000011010100110011001001000101000001001
100011001100010011100010111010100011011001101010000011100011011
111010000010000111001111000001000011010110011001101100010111
101011011110000001000111110011100110001111000011011001101111010
100101001001010101010001000000010010100100100100100101010000
101101111000001000111001110000001101000110100110010010110100
110000001001011010111001010001000011000111110111010010101001001
111011010010111000000001101001010001101100110101100000010010001
110101110001110110010001111100010010011010001110011000100011000
111111010010001111001110001011111001000110011001101000100100111
101100111111101111001011000100011001100000111100011011000000101
100101001110001111000001001011001000110001111010111001110100001
100001111000100111000111110000010001100011100000000011010000101
110110111110001100000000010000000100010001100001101111010111110
100110000101010000101011000110011100110010100111000110011110001
110100101111110010011011001111101101100110111010001011111000010
111000000100101011000011000010100001110010000101001001011000110
101000100000010111000011010101101011001101000101001001010010
101111000010100001010001010000111011010001010001110100011111110
110001001110000001000110011110101111011101001110000110111100000
110010010101001011101111111011100100101001000001101000001000
100100100110100011001001100100010101000100001100101101111111110
110011000010000100100100010001110001010001100010100010001000100000
101111000000111111011001100110110011001001101111000101000001000
111100100011001111100000101100110100011001011010101011011111000
110000010101101101001101110101000011011011001001111010011001110
100111011110001000000010100101101100011001001001111111011000001
101111101100000011011001001100111010101101000000001001101011000
110100010001000111100000001001101100011010000110000110111000000010
111001001100001010011000000010101000011000101000011100000
111001101001110011011011110000001100010101000110000000100011110
110001111000101000011111011000110011111010010100000010001001111
101001110110100110001000011111101101100001110000001000101100011
100011110000001110000000100111100100001010100000110000001010
101011101011100100000000000110001011011110001100111011011110011100
10101001000001001001111000010100001110001111001000010111101000
111110001110011001111010110011100010101010100010100101101011
110011011001000010111010110000001100111010110111100010001111100
110011000111000011011100100011110101111010110110101101111001100
100001110001110110010001111011010010100011010000110111000000010
100000010100011111001000111011111101100001010011001101010001001
101100110110000000110001000111111011011110100011100111000110
110000010001110001000001110100000101101000111111000110010000011
1010011100111000011011111101011000110001111111111111010001
100000010110010001100010001000110111101010010001110001001111
100101101001000111010101101110111101100110000111111100011000

110000010111110100100001110100001001110000100111101000101010010
110010001100110010101011000101000011111010010010001101101110111
111011111011001001110111101101000011000011010001101101110000
100110100001000001110100010001010100100100110110101110100011 0
101011000000000101001010000010100110000011010000110010111110100
100100011100000000001000000100111101011101010011001001111100111
100001011110110011001110001100010101110011110010100110100100 0
110011000111001110101110010001100111001101010000010010010010 01
110011100011011100000101010101000011100000111110001110010010 0
110011110110011111010011001000011000011001101111000101100000 1111
100100000010100000110000010101110000011000110010101010110111110
101010100100000101101010110110011001111101001110100011100000100
101111000000110111011101010111111101000001000110100101011111 10
110001010101111110100011111100111001110111100111000000000 1110
101110100101111010000111110011100000101100010010011001101000 0011
101100110110000001110011101110000001010111100111101110101111
111101101111000010101001011100011011110101001011011100111111
101110000100111011001100100000010110011001011000111001000111 01
110011110001111011011001111001000110001000101000001011000111 0010
110010011001111001001101011000000101101111101001111001100100 11
111001001001011110000111011110110001001110111110000111001000 1110
111101100010111110000010111011111011000101101111000001101101 01
110100000000100001101000011011010110100011101100011101100011 1011
110110101010111010011001111001000110110000000111001101010100 100
110010010101010110110011001101110111111100110000010111100010000
100110001111001011000000001000111001100100111101111011001 01
100000011001001011001010000011100000011100001001110000010100100
100101000101001101000101100010100111101111110010011011000100 110
101111010011001100000101111000000101110000011101011001111110 0010
110011001000000010100100011100100100011111010001101110111000 0110
101110111110011001001000010111000110110010110010000010110111000 1
111010001111010001110010101111100010110001110110000011000100111
110001101100010010100110000110011011001011011100010110111000 01
101001110010000010100110101110000010100111110000000010000000
101100100011011000001110111100100100100000111000111100111010
101010010101011110110111100001011110001111010010110101100111010 0
101011101010010011011001001110100001111000011110110010000011 11
100011000110010100101100011101100010101011000001001010011111011
111100001110011011101011000001001010010001001001000010001101101 0
110100110110101110110000001000101100110111100100011110110011110
100100110111101000111011100000101001010000001010000010011101100
110011000001000010101011011010001000101100100100111000000010001
100111001111101101011111110111011000110100001110111011110101010 11
110101110100000001100000011011101111000111100001111011000111 1011
101111101100101010011011001111001100100111010011011000110011101 1
100011111010000011000000100101101010000000101111010011010011 011
101111000000000001001010111000001000011111001000111001110000 11
101011000110000110111110110100110001001010111000000101001111 01
101000000010000111110100010101101011001101011111101111111011110 01

100000111110110000101011111001010001110010100011010000110110

100111110011111001111001001001001011010001000110011011010000

10110001010001100110010111001110011001000010011000000011011

1001001101100111110011110110011100111101001010111100011000110

100111101111001111000010111000111000101010101101000110010000

1111011110000110111010000111001011100000000001001100000111

1100101100111111001100110011111010111001001111110010111011111110

100101011110111010000100111001110100010110000100100111110011

100001011110000000111100000011110000011001001110110101011111111

10010110110111010100011011011101111101000000100000101011010001110

11110000111110011111110110010101110111101001110110011001101

100010100001101101000011100111011111001101111100011011010001011110

100111011000001101011100000000100110110000010101111100000110101

110101111100110010011011111101010111101001110111110101111110100

11100001001001110010100011101101101101010000111100001000110011111

11100110001110001010011010000101100110011011100001111100011011111

10011111111010010010011100010010100011010110110011110001011000

101011001001100100100010101101101111011110011001001011111010001

1100100001111111101100111110110001010101111101010010000010101101

100101100001011101001111110100001110000000100110110011000000011

111100011111111100110111110101111101111011111110010111111100100

110010011111000111100100111100110111001101111111100001111111

11101001111010000111101101101101111001001001100000010100111000

1010100000111011111101000111100110110110100000011101100011111

111001101100111011111001100111100110011111011110000100101100011

1011000111000000111100110111111101111111100101111111111111101111

101010011011101000101010010001010011001001110101100110011110011

1101000111100011110110111111100001110111001101011000010100001111

111110110001111101100010110000000000100001001100110011010100111

1110011011100010111111110011111011001110100110111110001100000001

110010011111001100111100110110101001111111101001111100001011111

110011010001000111100100110011000000111010111101100011010100111111

101011110100101101101001111111111100110111111100011000000001010101

10111101111110100001100111010000101101110111111000011111100011111

11111101100111111111010110111111100110110011001111101001111010

100100111010111110101000100111101000111110010011100110111111

1100000011110001101000001011100001111100100100101111000110000

110011001001001000110000000110100100011110101100001110100001

110100111110000100010101100001101001101001100001001101111110101

1100101000111011001100001011111111101100110001001110100011111010

101110010001100111011000110111011111000101111000110100010000

101011101111111100101111111111000000010111000101011011110100101

10001000001010101111111000001111110001101011010000110101011101

100110010110001001001111110110011111010111001001010100010010

10011101011011111001111001111010111001101100010110110110010111

11110011110011110000110001000001001011011110111100010100011001

110011101001001111000010010101110110101100110000100101100011

101101011110100011001101101101101001010000101001110111011110111

100101100000110011111011101111111100100111011100001110111000010

101011001001110110000110111010010110101101001101100010101100100
111000100011110111001001001101100011101110111001101101001101100
110000011100100000010110110001010111001000000110111000100000111
111011001000010111100011011111100101101100100011000110111010000
100111000111000100111011100100010000000001001101111101110010 01
111111011000010011010000111110000010111000010110110000001101100
110110100110001111101001111111110001001001100000011011100100000
110011000010010001001000100100000000110011000110011001100110011
101111010011010000100011110100010011011010111101111101001101111
100110111101101011000011001011000001010010110011001111100000010 0
100111011000001101101000110101100000110011000001111111000101100 0
110001000100101111001111011110110011110011110011011000100100 10
100110001001111100111100001111111110000001000011101010101 0
110010001010010100010001110011010001010011011001011011011111
111100001100111000001011111100110011001111100100000001101101010 0
101001010011001100010011000010011110010000110010001111100010111
100000100101101100011010110110010110000110111011000101000110100 0
110011010110000101001001000001001010101111000100001100000101 10
101100010101100100100111011111000010110111100101101110001100011
111000000001111100001111000111100010011110001001111000100000010
100000110011000010100101000110011001100110101000110011010111010
100010011010001000001101100011110110101110111100001110101 01
110001001101011011001100101000101111001101010101111110111111
111110111001100110001011111000100100101100100011011011001001000
110101100010110001011100011111000011100000101001110010011000101
110111100010111111101000000110111000100001001010000011001011 1
101111110110011111001111001011111101001100101101100111111000000 0
100110100011101111110110110001111000100001110101111011101000110 0
101100110001001111000101110001100010001000100000001100111111001 1
101011100001011000111100001101011100010000011011110011110110 0
100011000000110001110110100111101001001001101010111011111 0
100101001000011010011100101001101011110011010001101001001111
111111110001101001011001001111110111110000001111101100110111111 0
111010111001001101101000001010101100100110001001000110011000 00
111101000001001001010101101001011010001100011111110010100110100
110111101011101111111000011101110000010111010110110101 1010
111100100000010001011000101100011001010111000001110001000101110
111010000000110011110000111110000110110101000110100011110110001
101001111110101111110011110101111100000111001100100010111101000 00
110000000101001011011010001111110100101101101001100001111011 0
111111010100011000100010001111101001111011010000111100100
101100010100110101100100011011011110001001010111000000110001111
110111100010101001111011001001111110110010111101010111110000000
111011010001101111000010011000011000101101100000111110100 1
100011110010100100011011000110101110110111101000000110110111 00
1011001100100011110100001010110000101011101011100011110111010 0
111110001001001100000111100111010011011010011101111100010111111
110011010000100001011100100100011011000100101100110110010 11
111010011001100111010111111101001000011101001011110101110001011 1

101011101011011100101011111101110000111100000111101111101000011
110010101100100001101111100101011011001001111100000001111001
101010011000110010101101111110000000001011110010010000111010010
111010000000111111000110011111110011011101000010111011101100
100010011101110010111111011111000011100000010101111001001100
110110011011110001000011110100001010110100000011011111100010101
101000100111100000111111110001010111100011010000111001000100010
101000010110111110010010110111010000010111101000010110000000111
110011111100101110111011000101001100110011001100111000111100011111
111010111001101000001100101100111010101101100110111111111000110
100100010110110010110100011101100000110001111010000000101110010
110101001111001011001001110001000011101110010001001011000100110
1100110010100110010001010110100110011000010100100010100100101011
1001001000110000010010010011011100100110111110111001101110010100
110100011111001000011001000101011101101011011110011000001011000
100110111010001011101111000011111011010101111101010011111111010
101101111110001001101101011101101001100100010100001011111100
100110100111001000001011000001110111011001101000101010011111
101000101001110100011001000111001011100100101100111011000110001
110111110100010111000000000111100011101110100000010110100011001
101011000001110111100010001101101000101111101111101000011010010
101010101111101000001110100001111111100001110000011001110100
110011101011111110110001111011001001111101011011111100110001100011000
100001111110100010011110010010011011001000101010110000010110101
1010011111001011111010101111111010001111100010110001110110011111
111101000110001101101111110101111110101101111100110010111001
100011100100000110110101101111110011110101000001010011011110
111110000001101111101001011111111000011111011001001011011111110
111101000010100011100101011100101011000100001110000101111000001
110011111101000110100010100010110111111110010001010011101100110
100000011001111011101100101101111000100010010110110001010011011
101110100000010011011110001001100110110011000000001101110110
100101111000010111100001000101010110010111100110010011001000
111011110000011010011111001101111001000101101101010101011001000
110100111110110110011011011001011001000010111010000100000011110
100011011001001101010011001101111100000110111010000101001011111
100111111001100111000001110011100001111101001001101111101110010
100110101110110001110000110101110101110001100101101100110000100010
111101000111111101011011100000010011001000001011011011011111
111011100000011010111100011110000101110000101111111011001110100
111010000011110000010110110100010111000011001110000001011101000
110110011111000111111011100111111000010010111000100110110100100
111100100101101000011010111000001010000111110001101010110010101010
111111010000111011011110100011011110010110010111010011111111001
111001110000111010011111100001011011010111111111000101110110100
101001100101000110010011001100111101000111101111010001001110000
11110101110111100011011100100100011110000010110101001010100
11100111010101000110010000001110010110000010010000001111011011001
100100010010010011011001100101011010100011010100000011100011001110

10011011110111101111011110111100001101001101110100010000011000100
11100101000000100111000001100110010000011010110110000110111010101
10111010001100010011101011001011001101011001100101011001110111
10010100110011001111100111011000001100110111100111110011101
11110101011110110010010000101100110011101101110010111000011011
10001100001110011011101101100000001010100100011101110
10111101101011110011011000110100000110000010000001001110011011100
11000111100110110100001111000011101100011100110110111001111001
10000111101100110010010101111111110011100010001001111100001111
11001110001001110111111111011011111100111011111100110110010101111
11000110111110101010011010010111101001011110011011001101100111
11010010010001100000111100100101010000001000101101101110001000
11110000101000100011010001111101100110001100010000011101000000101
10001111110011001010010001000000110111000101001001100000001
10000110101011010000010001001101000001000011100100111101100010001
10010010110110011001010111100000110000100011000010001000010100
101100110001010111000101011111110001001000011110010010010101010
10011010010010010111100011000100010010100110111100000010000000
111100111011010000111110111100001000011111101011110011111001
10101001001010010001110010010010111011000101001100001010011
101010000100010011010000101000010000011100110111101010000110100
11011011001101011001111100101010101001011000110010001000001100
11000001100011011000110010001100110100000000010000001100000101
10011010111010011110100000100011110000010110100101000011110000100
11010000101011110000010011001111100100100110100110000001101010
11010011101010111110011100011000101000000010011010110000010001
101001000010111011100111000010111100111101000001101000010001011
11001100001010101111011010100110001010010001101111010001011000
10001010010001110100011110000011101110100011001001001001111110111
110000100010101110000101001101110111111100100001000101101101001
101010010101000111110000110111101010010010100010001000011001010
1000011000101011000000111111101110010110110101101001000110010111
100011100010111000000011110000011111111001000111000010001111011
100100001000011000110111101100101101111101110011011000010011001
110110011001111011010001101000010001001011000110101100110000011
11100100001110001100010111010010110010111110111101111011100101011
1011011111100101111101101111110000010101100010010010010101001011
1100011001000101000100100010101000111010011110010100000111010010
1000010000101001101110000100001001110000110100000001010100001111
1000100010011110010011110010011101010011001100110011000010010011
101010100110011011010111101101010110011011001011010111000011001
1010110111110101011100000100100101011011111010111010110001111001
1110000110110110100111011011110101011010000001000110001011000100
1010100011010011100000010101100000101110011010000011101101001001
10111101100101010000011000100100110000111001001101101001011011
1000110001000001101100110100111101000001010010010011011110011101
110010111101011111111010111110011111111111100011011010111001010
10010001111100100011011010110111101011110010110001010000000011
10110110100111111100000101000011000100100110101011000010100110100

110110011001101111000101000111101011110110110100011000010100 0
111100001100010110000000011011110001111111000111111000111000
1001000100110110001000110000110000111111000001010111110000010
1010011001111000101111001000101001101000001001000111000000
10100100000110100011011001100101010011011100010011001101101100 11
1110110100001110100001110000010100010100101101011110101100000 0
1111100000011011011111011010111110011100011011100010001110111 1
1010100100101111011001100000111101001000010010010011000010010 010
1001001000001010110000101000111111010000101110010101001011 10
10101001110011100101000110000010000010100000111110000101111 01
110100000010110110110100001111101001101010001111101001110111 101111
1110001100101101110101100100110000011000100011100111001101000 100
101001110000000111010100100000010101100111111111010111101001 11
10000010100000101011001101001001000110001110110011010101010 1001
100111010010001010111101101001110001000111010100001011100010
1011000000010100100000011000011100000110010100010010000010000 1
100001111111011000111000011111000011010100000001010001111001001
100101100111011111001100011010001100100101110101100011101100 0111
100001111000010100111001111101100101111010010110110011110100 11100
10110011011001111001010100100110011011001100110100011101101111 0
1010101110000010001110000001010011011101100010111101000110010 0
1000110010001110000010001100011000011001111010001010101000110 10
100100100000101001001100100100000111010011110110100001000011 0
101011101111000001111100000101010001100110011101001011110
110011110011111110010000011011001001010111010000010111110100
1011110111100101011100000001001100001111100000100001100000 1
1011001000110111010000010011101011110110011111100011001010001100
10111100001110100101111101000100111001000100011110010011011000
11111011010010001111010001110101000111100000011101100110011111 1
110010000100001010011111101010000010101111111101001111100000 0
100101111010010001110111011111100000101100000101011100011 00
1001011111001001010100110001100010111101011110110100011001011 0
111001000011100110110000011101101111101101110001101001110011 110
111011000011111101000110101111001011101001001100100010100010 1
101000111101000111110011110101100111100110001010000010011 1
1101001100000111101100110111001001000110001111000000110000 11
100001100000010001100110011110111000011100101000110000100 11001
111010000010010111111010101010110110101101111010011101010011
1110100111110100000111110000010011000001111110100000110111010
10101001100010010011011000101011100111010111001110100010100111 1
1011010110011111010101111111010011011101000110010101010001101 11
10100011001001011000100000100000011000100100010101110011010000 1
1011100011010100001001010111111010101111100011000001000111110 00
1111001000111110100010101110100011011101111000101001110110110 1
111010000100111101000110011000010011000101001011110000011010 0
111000110100010011011110010011010010010101101011100000001000
110011110100011101101010110101110100111101110011000001011111011
1101000011100101000111010000111001100000100111101001011111010 1
11110011010011000110000001110111100011101111101100101100000000 01

100011111011010110111100100111000001100110111011100010010011101
100100101100000101000100001110001001100000110101110100110110110
1010011111011110001111001100100100111000001010111111100101
1111111100100111111011100101111100000101011001110001000101
110100100000111110011101101010011101011100100001011001010111001110
111100011101101101100110010111011000010011101010000110100001111
100001110000000111010100010001100000110011110101110111010010000
101001000110110010100000101011101111000000110110000011001100011
111011000010111010000010001110110011011100000101001000111001011
110110001111011010101100110001000110010011001000000110000000111
111011010110100011001011000011011010011011110010000101010010100
100110000001100011101000000011100000100111111111110000010011101
111110001110111000001010010001111000011011101000101000100111000
111111000001010111000001010111011001000111101001011101101100
110011111101110010011110001010111100001110011110101011000111100
110110100110110101100010110101011111001000000111100001011101111
101001101010000110011001001000111111010100000101000011010001000
101110000001000111000001100101011000100100111011011110101110010
101110111000000101011101011101000111100111010000011011010101100
111000110111100100001111111011000100111101101101011001110100000
101110110001110010100110011001000100110110011001011111010111100
101001011101111111100111001010111100010101110000011011100000000
101011011010001001011100100011110010000010101000111010001100001100
100101110100101100101100000001101100100110101010001111111100000
1110000011011100100011110110101111110111011101101111100010001110
111000001110111110010111111000000100010100101001011101111101
101100111010011110110001001001110111100110100101000101101010000
110010011010001001001100100110010110001111110010001100011101010
101101001000111011001101010000011111100001111111111010001000101110
101111111010001001100000101000110011111011101101111111001110001
100111101000111011111000001100100111000000011011100001101010
100000111010110100000011101101101010100000000010101011010111000
100000001011111000100010100111011010000011111000011100000000011
101101111100000111101001100110011101110011011000110001111100111
110110000011100001011110100000111111000011110101110010111000001
110011101000100100000101001010110011011010110010110100000000100
110110001111101000010101011011111011001111011001000110010110101
101000110000100111011111000110110111110010111011010101111000000
111000010101101000000101111000100101000110001001001111011111001
100100110010011010110100000001110100001100010001111100011110111
100011111001101101100100010001100000001101111001100010011110110
111111111100111111000001111111110001110100101101001101000100010
100111110101001111100110111000101111100111101100110011001000000
100001010010000000100011110110010010110011011110110010110001111
111101000111111010100111111100001101100100101001100010011110
1111111110101111111110110011111110010110111001110111011111101110100
111111110010010110011101010111111011100101100000101001001001001
110001001001110011101111110000111001000111111000101111000000111
111110001000010111000000110000001010010000011111011001000011111

111100111011111001101100100111111111000111111111010101111000
111100100011001001110010011101100011110011011010110111110101101
110001110100011010111100100100111110000001010001010001001011100
111111001101101001101110101011010000101011111001111010111001
111111000001111101000011111100110111000101111101101010111111001
110101101111110011011111001101110101101110100111111000100111100
111111011011111001110010101100110000010011000010111101110100111011
101101011111111101011111111001101111111001101110000111111100110
101110001011101000101110100000011001100111001001010110010001010110
111111110001111100110000000100011111111000001101101101101111000
110111111111010111111111001111111110100010010001010001111000000000
101101100011110010111011011111110100111101111101111110011011010
111100001110010011011000000110011011011001001001001100101111
100110110001001010010110011000001011111100100011011001100110011
100111011011000110010000110011011011111001001000100110011000011
100000111100100110111111000110011110000011011001100110011110000
100111000001010001101100001111110000101000011011101001101000000
100110011110110001110101000000110011111101111000001000001100110
100101111001010111011101000010111010110110101100100010001111011
110011001001011110111001000001000011010110101100000010111100001
110110100011110100000010001100101100110001011101101100110001
1001111110011000111100001011000101001010101111010000011001001011
101111111011101010001011001101111010001001000001101011110111001
110110000111011110001001110110110110000011011011010100011100101
11100011100010100100011110000000100000110011110100001001000100100100
111101100110111110100110101110001000010101100110001110111100010
100110010010111010000100000011001101110111100011111100010101000110
100000111100101111101011010111001000011101100100011011111000100
10101110111101110011110110100100011001001011111100100011001
110111010111010001111001100010101010111000011011111001001110001001
111111010001100110111011101100000010011000001100011000110110011
10101110110110001001101111011111101110100110111101100111001011011
10111111101000100100010000011011000110100001010111100001100111001
100011011101101001100001111010010011000010010110111001000011001
10001011011010101101110100110011110000010010011000100110011111001
111110001111111010100110010000010100101110011011011000011100011101
10111100100011101001011011001000110101110010100111110010110011001
10001101111001011111011011100111000101010001111000000110010101
111001111111110010100101100100111101111001011101101110100100001
100101110000010110100100111101001101110000101000011010010001001100
111011100111000110110011101111001000111111100110011011100100100
111110101101101010010110000000111100101101101010101110100011001
110110100110011001101101010010011010001110011111000100001011010001
10001011110000011001101110110001001110111101110110001011010001101010
101001001011001101001110110110001111110000010101100101110101010101
11010001100011001101011010000001010110000000000110010000001111
101101011110110000101111010110011010101101011111000101100111011011
1101000111101111110100011010000110010010010011101100000001001011010
11001010000000011000000010110011101010100011111001100011011001100001

110011110100011011101100011011111000101101111010010111111111000
111110110011011101111000100111000001101011111110000111000000101
100101111110000011001110001010010110100001011001111001010001101
101000110010011101010000011100001101011001101000011111011000
111110100000011111100010110000111101100110110011000000000111111
111010110111100001010000111010000011100111101100000010110110000
101111111011011111100011011111100100111011101000011011000000
100101011110001101010111111011111001101101011100110111011010110
1100110010001101111001000100001100110111010001000001110111111000
100101001101101001010100110110110111110100111011010101011000110
110100011111111000100001111000001101101100010001111110101111101
100110110011001000001010110010101100110011110000111111000001100
100111100111101100111110111110110011110110001100111100111010011
101110110010101100000011010111011100110100010111101110011111011
111011010010001100011000101010010100010110101110001110001001
100000011001110000010111100000111011010000011110100111111100
111110100100011011000111001111000010101101100011111110101010
101111100101001101000010010001110110101110011111000000001110110
100010110110001010000011010011000000110101011000100001110010
1011110011011110110111110111101000111010001000001110001000001
101100101111011001100011000100101101100111100001010010101111100
110010100101001110110010001011110100001111101010001101101100100
100111100010111000101110000111000010001101111100001110111001
110010110111110001110111000001001001011000101010111111001111
111100001110101010111100010001010011011000100100100100010110101
111101100111010011110100111011011000000001101110111101000100110
100011001110100000001110000011111110101010000001110111101110100
111000100001011010000111000111110010111000010011001011010101001
1001010011000101011010110111111001011010101111000111110000111100
110100111100010000111100000101011001000101101101010010111101001
10111100010101010111010010111011010000011001111010011100110001
101101101010111000111001000110110100010110111001110100111101
11001111111101110101111101000010000011101101010101111001
101011100110100000111110100001110100011001001100100011001101001
110101110010100001101000011101111110000111011010101110110100001
101110001001100011001000110111010000010011010110110000011101
110100110001101000100100000110111101100010011000011010001010001
101100100000101001100000010100010100111110111001110101111110010
1111010110011010000111100001000001101100100011001110010100000100
1110011101000101100100000010111101010110110001000010110111100100
1101001000101101101111110111010110011000101110100000000011011001
1001001011001010001110001001111101111011011110010000101000101000
11100110100001011011101000011011100100110110001100010010011
111111010010000011100101010000111110110010100110100000110110011
110000001010011000000011011000010110101001101110011110111010010
11011101000001111011100111111111110000101110110101011010001
1011011111101000001011000000111101110011101101100101011011110
100011100001000011011100101001101111110010100011101000100111101
11011010100111000001101111110000101110000000011010111111110

100010111110001010001010110001010111000001010111101100010011100
100001101111000010011010101011000101011110110011000010111001001
1011101100011111101001000011011111000111110001100000110110001
111111010101110111011000001110110110110010000011101011110000001
111010111100000111011111001110111110011111000110110110111100010
100001110101111110111111001000110000011001110000110010001100
10001000100100000001011100010000001100111101000010101010101011001
111001100100010110110100111010000100010110101101100001010011000
110101001111010010101110000111110110101011001110100001000111110
111101010100110011111010011111010011100101100000011111000111110
100000110110110001000000001111100011010101110001000111111010000110
11000010101011010001110000101000101110010100111101100010100001111
111000100000011100000011100011111010000010100011000001101101001
100011101010110011111110001001010101110010110000111110001000100
1000100110100001000110110001001001011001000110000001110001001
1100100011110001010101101010100000001110110110001011011111
11000101110100101110100101111100111000010011011011000101110
1001011011011100011110111001010010101111010101000110111001101110
101011101001011110111001000001100111111010001011001011101001001
110000011101100101000100000111101101101010011111010111011011000000
111111111011001100000000011000001110001101010001111011001000I
11001110100000111110101000111111000100010000100010011000110111
100000100100101101000000000100000100111111101100101100111100I
111111101000100111100001001110100111100111011100111000110
11010000010111010000101011010000111111110000001110110110011011O
11101111011100100001010110110000011001110011100110111000011O0
11110100011101010011110011001111110010011110101001111101011I
100011100011000001000110010011001111000010001001001000000111111
100000110011011110101111100100101100100011111011110110011O
11010100101100111011011111100001000110001111100100111010101111001
100000100101010100000001101100110101000010100010101010111000110
100011100100011110101100110010111110010111001001000010001110110
110110000000100110110011110110011101010001110011011001001000000
10010101001011001111100111111011011001110010010100110011110111I
11101110111110011001000110000110001010001000000000101100110010
111111011111111000000100011001010111011111001110101001101100
1100111011110111101110000011111011111001001001001110111111010010
10011101011110010101110111000001000101100000110001001000110000
11111101011110101101100110111100101111101100111111010011111000
11011110110100101001100100111111010001100101011011001101101111
11100000010001100100100111000101111011101001001000000111001100111
1001110111110011100010001110101111101010010100111100001000011
10101000100011010000100001000110111111100001010001001101100010100I0
100010001001100110110110111101000000011111011010111000101000I
11111101111010100001000111001000010010100010000010101000101101I
11111101011001100111000011011110101111111010101001111110101010011I
11111110001010111010100010101011011100001001001010010111101000010I0
110101110101111001101100110011011110010010110111011010110110001100
111001001111000100100011000001010111101111111101001110111101111000I

100111101100111011011010110111100011011111110000000100110000100
111100000111000010110000100011011100000110111001000010010100110
100011011111110001101100010000000110001001000001001010000001000
101110000100100001000111000110011100001010001101000000010111110
110011010110001000110001100110011001010010111110101000010010111111110
100011111000000010101010110100010010100110100110000011001100110
110011101111000010100000100110110000001010010100000101111011001
111111000111000100111011101000010000010110100010100011010000100
111000010100010110110001010101111000100100110101110010001110110010
100011001100101110111010111011100011011101000110111100111001110
110000001111101011000100110110001001110000101101110111011110011000110
111101000110111101011001000100101010011001010101111001100000001
110111101111001010010100010110000000010011111110000010001100110
111011001110010101100000011011001000000111111011100110110110110
110011010011001100110100011111001100011001111100011010101000001
101010100100001010101100000010010110001010101101001001000011001
101011101101000001001011100000101010110011001011101011111101111
101101000110101101000010010101011101000011011110111101000011000
101001101111011000111100111000111011011011100111011110111011010000111
110001000100011000111101011110110110010101000001010010001100000
111110000100110001110110011101111000010000010011111100100111001
101001010011000010010111010011010000001011000010100101011110110
111101000011100011001110101011101101000000010000110010110011011
100101111110111001100001100111000101000111100001111100001000110
111001010001100000011010000101100000010111001100100101111111100
110100011011010111100111011000100100111101101010011001110
111011000111001100100000101000111011001111101100100001011110000
101011000010010100101000110101100000100101010110000011110110000
111110101101010000100010011010000101011010110100010010100101
100111101011111011000101110001010001101001010001110101000101
101011011110111101000000100111101110111010111011110100110000001110
111001001101001101100110010110001111010001100100001000110011000
101000011011110111101110000011001100111110010111111101000001011100
101100010101111101001101100100000010101001100100010101011
11010011110100001010101111001111101011110010110110011100100000011
100101011110110101001010011101000011001101100101110000001011010
11011110100101101111000011100111100101111100011001011101110001100
101101010011111100110011111111110011111111011101101001111100111111
101111110110011000101110111010001011001100111010011111111001
110011011001011011010011000001100000010011100100100111110011101
100110000100011000110111000001010110100111101011110000100110100
101101011001111001011011011101111011101111101111101001000001110
100011100100110000100111001011111100100011000110111110001110
101000001011010111110001100011110110000010011110110111000111101
1110010001110110100001001100110011101101101101110000010010000
101100001101100100011111111110110011001001110011010001110110011
101111000010111101010101110110011001011101001100110000100110011
101100011000101000110010110101110100010111110000001010100111000
101011011010000001110111101000100110110010010111111000111101011

100000000110011100111100100011001110111110000100110010010110111100
101000110110111110110001000110010001111111000011010101001010001
110110011001000100011011001100010111001110011111011100000011011
110000110000101100000111001111010010000111100001010000101010011
100011010001100110000101000101001010101110111101001111100100
10011010010010110101111010101101110101100000110000011000
100011001100000100001101111100101101100000000110001011011010000 1
100100110100110001101111000110011110001110111010010100001001001
111000001011011001000001000010100101100101111110001010100101 1100
10100000111011011001101110111000011001110011100001010110010 01101
110001100001000110100000010011000111000011100110111101000 10101000
1100100111100100101001101110010110010111110100110000100000010110
101011111111011010000011010001111111010001011011000110011 10101
101000110100110011011110100010000000101111100101010 10010
111100000110000110000010010010000010000010010101110010 0000111
10110110011100001111000001010011000110100100011001001000000001
1010110100100001010011001010101111110111011111010111010010000000010
11110110011000101100000011100000000100111110111001101101 1100110
11101110011011010100111110010111101001011110001000000010010100011
111010100100101001011000011001100110000011111001010001001001011
1100010010010010101110000111010001110111000000101101000110011 00
1100011000101101011011111011000101111101111110100010100011 00001
101100000101001110101010000001001101000110011100100001110010 0011
1000011100110011000011001100111010000110101011100010110100 0010
11111000001010110011001000010011110000110101100100011110110 11110
1000110000001101001100000101101111010001000101000100001101 100101
11001100000001010110010001100010111100111101000000111011000 1010
11110010001100011011010000100110101110100100101101000001100 1111
101101101111011000110110000011100011110111001000110101001011 0011
1010010111110111010001110000001100111010111000000100000010 0
1110001010010110010111110101001100001100111111100000101111 101
101110111010001101111000010111111100111001110100101110011 11000
111101001110001001010101110011010011001000111101100111010 0110001
10100010111010010110100111111011010100101011100111011110 01110
110110100001111011100000011010001110101011110110000001 10000
1010101000100011001100111110011111110011110000101101110 11
1001000101010010010011011000001111101011000110001010101110011111
11101000111010001101111110100010011001110000100111001001 11
11011101001000010001100110110011100100111001010010000010101110 10
101100100010011110111000001111000010001100111001101001110110 0000
110010001110100111010101001101111111110011011000100011101111010
110001110111111110010101010110000100111011101001111010010100 11
110100110111111001111001000010010010011011111111110000110100 0001
101000111001110100110110100110110110110011000001001000110101110 1
11011011000001101110000011000001111100110011001100010111100010 11
111000111100101010001000100010000010100000100001011100100100 0
110111111101110010100010100100100101111100100010111111110000 1010
11000110010000011111100100101101100001110100011000100000 10
10100110000011111101110100000100110011101110011011110010

101010101011011110101110011000011100011011000000100101100100010
1010110011110011001011100000110101100000111001011000
101111011100111000101001001000001010100010110101100001000000101
1110100110100001011100000111101100100111011010000010101011010
1111100000110011111000110101110000110111010010001110000011000011
1111011011001011111001001001011110100010011011001101101000100 00
1111011101101000011110111001010011011101010001101111101101011 01
1110001001000000100111001100100011111101111110110000001100001
1010001010010100101000000100111010011110110000010001101100111111
1000011101110001100000111011111011101101000110011000000110010 0
1011011010011110111110000110101111110001100100101110110101100111
1000100010100000011011000001111110000001000001001011110110100 00
1010010111100100010001011010000011101101110100000010000010110 0
1110110100111111010111110100110011011010111101011011001100101 00
1110111110010111000010010110001101000000101100100101100 1
1111001111101101001010010111100100000011000001001111011111011 00
1100100111001101000111011111011000101101100000100101001011111011
1110000110000011010110111100100011001111000010011001000101 10
10000001001001111111001010001100111111110111010010110 10
11000001011011000010111101110000011110100011011111010001001 1
1001001110011101111101110010111100000011101101010110110011111
1111000111111000010100101001100111101101000000000010001010000
1010010000101000100001010110011010101001101000010100110010000 1100
10110100010000110001000110110011011111111010101000000101100110 0
1101110110000001000001000111111101111010010101100100101100111 1
1100101110001011011110110101001011101000101111101010011011010 1
1010001001110010001010010101111111100000011110111100100110111 0
1010010100110100010011111101011001110100001010111101001000100 10
1100000101000111101110101111011010011011000000101111010001101111 0
1101110000001100110010100100100100001011111101101000001001110 0
1011011001000111000011001100111110011111001110000101001111 0000
1100111010011100111000100011011110111000100010010010000000111011
1001000001110010001110000111101100011111110001111100011101101111
10011100101111000101110001011010001000010000000100111000000001 00
1010101111001010111101110111110011000000010011011110101010 01
111111001101101111011111111000110111111010001111111110011011
10000000011101000000100011001101000010101001111111111100111110 01
100000111010101100000000111000111110001011101000111111111001100
11110111001110011011100000110010001011110100000110101111001011
110011111100001111100101100110000111111101111101001100110 11110
10101111110010101111110001111111111001101101110011111111001111 0
11100010011100000010101011011101001101111001100100111110011011 01
10100111010011000110011001000111100000101001101010101000011010 11
111000111001000001101110001011000010100100101101110100001110 00
1110101111001011100011011001100100101001001100010011001101 0
110001110011011111100010110110011001011100111000011100000111101
1001101100101010111101110011111111010100111111111011000001010000 11
1101010111101011001110001010100101111111001011111001010111 1
1110111111111111111100110111101001001010100001010000100010

100110011101011011100101110011100010110011001111000001000110
111011100111110011011001101111111011011111001001111111001101
1010011110101010001010011111110100000100110010011111010011
1110010001001011011010000100000110000110100111011101010100100
100000001011101001101111100100001011100010010110100011010001101 0
100100001001110000100100111000110110001100011000110011000001110
100101011000100111101001100000100010101100001010000111001101 10
100000110100011100100011110100011100011011101000101001010011001 1
111001101100000010111001110001011011000111010101101111001101011 1
110111111111001000011100000011111010001111101100101011000000 00
100010000100100000100110110001001101011011101100011010011001001 1
1001111110000110101111100010110100011111101101011101100011001 11
1011101000101101001001001100111100011000100101110011110001101
1111100001110000010000011011000001110100101110000011001100110 0
101100000111000100000101011101000101100010101111000100101110111 1
111011011000100111001011100010101000000110110110011001010111100 1
110101111000100001101111100110111100000011001001000000000010100
100100101110010010101111111010011011001001001101001101100000110 0
110000001110011100101010101101100000101101000011001001000001011 00
110110101011011000100011000000111111101001100001011100101100010
10111011000101001101111100101110100101001111100010000011100101 0
111010000000100001001010111111101100101110110100101100111110001 0
11100000110011000100101111111000000100101101010110001101000011
11000101111000011101001111100011100011110010110000110111100010 10
110000001100001010011000000100010010111010100000010000010111 0
11100001011100111110010000110001100101100001100010001101111011
10000100000100110110100100101001100110011001001000100010010011 10
101011110000111000010011101000111111101001011011010000111000 00
110011111100001110110000101001001011100010100001111101011110010 1
101011110101010101001111110001001001100000110001000111000101011
10100111110110100001111110101000010001010000101010101000101101 01
1110000001001010011011010011001111100001100100100000110010110 1
111011000010100111001111000011100000000110001010010101111110110 011
110000001001100101001111101100011110000000011001110111010010
11111000000000011011001110010111001001011010111101000001111010 1
101101100110111111101011110001101111011100010100110111110110101 0
10101000101001110111001100110011100101111111011000011001100 0
110111010101100010011000011101111011101001011001011101100111011
10110001110100011011110010110110010001011110111100010000100000
10101101101111001011000000100010110000101011100111001100100001
110100111101000011011110001101000000101001110010010010 0
110110101010101011011001100011101001100011101100101100110110
10111101110010100101000100110100101110111001011101110000011100
11111000111011011100111110000011100111101111001110000101110 01
1110001100110001111100000011100011101011001011011111100111000
1101011001000100100110010001001001110000110011110110110011 10
101100000011001011110111001110011110000111101110000100011011 0
110100111011011110101111101100011111110111010001000101110100110 1
101111110011101011100000011101101111100000101110011001000011101

100110110111001111011100111111110011111001111110001001001010111
110110110011001100100100101101010010111111100111111100111
110110000111110110111111000100010110000001011011011000001110011
111111101100001011000000101011011010101000111110010010100101000
101111001110100010011111010010001110010001001001111100101111111
110001010110000111001011110100110011011101110000100011001000011
110101001011110010011010101111110001001111011001101110010000100
111100000011111010010110010110110101100110001100010010101101111
101000111111111011000010000111000101101101111100111001111000011
111111100010001011001110010101011011100010111001011111000001001
100101101111101011010111101011011110111110111011100111101111101001
110110110000011110000010100100110110101000010011100010000010101011
110101111101111000101110001100100111010110010011011011111001001
111000000110011010110111000101000101011011001001100111101110
100100011010001000001110100111101110010001001000101000010101010001
111001010010110001010110111110100110010110100101000111001010111001
110000011101011000100101111100000001110011011011011011011
101101110100011111000000001001001010110111011010001100110000
110011100111101111111010100101111000111111110111110011110011000
111000001110001110001001100011101000010011100011001010110000110
100100001110110011111100110110010011011101100000110110101010
110010100011000010010011101000001110000001100100101001111101001
110001001001001100000001110110011100000101111101010101011111111
101101010101111000011110100101111010101111101111010011000
101111001000101100010100101001111100010000111011000111110111111
101110110101111111101110001011000001010010111000000011100110110
101000001100101001101111101111100100011100011001001101111001011110
100011000001100001111111110001101111010010110000000101010001
101100100000011111010100100000001001011001101100010010111010000
100110111110100110011110011001001100010100000111100100100100011
111010010101101011101111111001001101010010011111110000110111110
100011100000111000110010010011000111101000001101011001010000100
110011111101011110110101111001110000011101110000000000000111
111010100111100011001111110001010101111000011110110001011111001101
100000110100001110001000011111100101000011010001100001111001101
100010000101000001011110010010101111100011011111111001011101111
110000111100101111010101111111100001111101100100101100001100010000
100110000001000101011011010100000101100100101101101110010101111
101110110110110011001001110000011100001101000101001101001011
111001111110001100111100101111011011010001110000010011110000
101111110011001101000100111101001000110100001111110000011100111
101101000101001011001111100110001100100001101101000110110110101
100100010111110001110001011011010101110011011001001000000110000
101111100011100111101011101101001110110101110001110110010111111
111001011110011000010111011000100010110110000100111101100000001
101101111110001011110111001100011101001011000111011000101011100
101011000111010111111100101111101011101111100101111110001110111
110000000111110000101110111111101101011001001110101110001110110
110001110011011000000101111100110110110100001100011110010100

```
1110010111100100010001110000010110110111011101001101110001 1001
1000110100001100011101010111110100000111100001111011010000100011
110000111101101100110011100001010111100001010011101011110 0100110
1110010001100011011111000000000011101111011011011001000000110
1100111101010111100011001111100011011001101100011001111 01001001
1011000001010000111011000100111101001110100011100110011000 1010
1100111001111000111111010000111011101110000001101010000101 0011
1011010110110001100101100010010001101000101010011100000101111
1100010010011100100010010010011100100110101011110100000010 11001
1100110001011110101000100110111100101001111100010100111000 1111
1011010110010111010010110001110000010011011000111110100100011011
1100100010001110111101010110010001101101000000010000110101 00001
1111000110001011100011100110010001100001001001110110011101011110
1110011011001100011110101010000011100101010100000010100011 0011
110111011100001011000100010000000000011000101100000011011000 0011
1001011110000011101000000111000000011101000100100101011 10
1101001011100011110010101000011000101010111100100000101001
1111100101101111001011100111000000011000001101101000110100 101
110000001001101000010101011010000111010010111111111100 1111110
1010111011101010011111001001111111100011110001001101011101 110
1110001001001100110111110001101111111111101111111101111011010100 11
1101110111000000010011011000000010101000000010111011011110100
1010000001001000101011111101100110100111011110100010010011 01
1101010000100000101011111101010100100000110000101110000100 1011
1000110010000010001110010100111010110001000001000101100110 1001
1000110110001100111010110000000110010011100001010101011101 110
1111011010001000100000011000000110011001010000111001110001 0
1011110000000101011000110100110011110001111011101100111000 01000
1111100010101100110110011010011000001000000010001110011000 1
1101010001000000011100100011000001100001000111010010100011 00111
1101101111001011010101000001000101101101110100110000001101 11101
1000111000101001101000110010101110011010110110010110010011 11011
1110101010000010010010111101010010010001110001000010001010 0000
1010000001001100100000111111110101001100001000010000110110 10
1100011111111011000000100110110011000111100001001101100000 10
1001110001011101100111111110111111110111101110000111000100 111
1111000101001010011000010100101110000010001110111001100001 000
1000111001101011111001101101000010010001000011100100011101 000
1011110111001000000111111100111001010111100011101000110000 111
1100000000100101110011100111000111111101010011000001000011 1110
1000100000101001001110001110000011100010100001100101001000 0110
1001110100001000110000011010011111011000101011101000110011 11111
1110010100101000001010110000010001101100100100100101101001 00101
1101100111001100101000111101000001110101111010111101000001 0000
1011010101001001101100111001011011000110000101001110001010 000
1110001110111101010101101111001100011001010111010000100100 101001
1110001101010000100100101011110011111010100010010100111011 000
1100110110011011011010101010100100000000100001001100001111 011000
1000001001111101101001011110000111010111011011010010001101 100101
```

100000011001100010011110000000100110001010001000110101100110001l
1110110011011110010011011110100101100010001010111010001010001l0
100100110011000110111001000100011010001100010000110000100100010l
1111010111100001101010100001111110010100100100010001110100000
1010110000000110010000010001110000100001010100111000100111010 0
100011111001110001010110001100010001000110010110001100001000101 0
101111000110011011110001100011111010111011110111110110111001010
1001011011001101011110001000110010000101111111101111010100110
10001111000111110010010000001001111100010011010011010100011010
100000011100000011111111101111101100000001011001111100011111001 0
100000011010100111001111110000100100100001011101100101001000111 0
1100011110111001111101011010101101100110000010001011100000000 11
111000100000111010100110010010110000010110010010000100000000l1 0
1101111100111010110011011101000110000010100011111011001000110
111001011001011100111001110010111111001011110100101111111011000
110011001000001101000100101101100010100010110100011000101010 11
100000001010100000100100011000000010001100100010011001010111 10
100010001101100101101111011010010001100101010111001110000001
100011100101001010000010000001100110111100010101010101111111111001
110111110010110010001110010001100111100100100100001110001
10000010001100001010101000101011111110000110100000010010l1111100
10001100111000011001010100011101001101110111100000l100010011100
11011110111101000000111000010101100100010001011010010111111l0010
100111101011111000011100001101100101011010001010100111110100
11101111001010000101000011100111000001010001110111011010010000 0
11100100100101001011111010111111010011001000101100010l001001111
100000010001100011111010100101100110101011110110001101l0101101110
10100001010111001000001111101011100111001001011001l0111101001010
11110111110010110110100001011011001011000110001100l1100100010001
1100111001111100000100100101100000001100010100101010011l1011001
1011010001100010000010110011001111111111110000110100011010001100
1111101101011010001010010001101101000111110000010001l00110010001
1111000001001001000100001100000111100000111001l0000100l1011101
110010010010011101000110011101111001101110100000111111l1101101111
101101111010001111100110010011000100011001110110000000101
110011110011100101010010011001011101001111000l1100011000000000l11
1111011010011111001011000011011011000001010111011l0l1100000000
11011001001100110100111000000110111010010011010001010000110001
101000011100000111100100100111100000111011010001101100000
11100101001111010011111111101000000111000000011110000010011
111001110011101111000010000001101100110000011000111110111001l0
1101011010001001000l00000l01010001000110011000110100011111l0111
11001110110110100110001110100100101010101110100100000110000101
1111000010010110000111001000101000011011101100010111110101011
100001001001011110l0000110110010000l000111011000010011000l00011
10001111100000110011011111110110010101l011111110100l000001000010
1001101100111101100110001000011001100010110000010010110011001l01
111011000011011110101010101001111011101111101010011l1000111101000
11110100011010011010000110100001000111000010111110111100100001101

111011011101000001111000011001000010001010011000010010010
101000101100100101101111010000101011000110100001110101111
111010001001010011010001100001001001101111011110001101000011000
110011011010001110000010000001100100010101101110001011010101011
10001011101111011001100101010011100011001011100000010111100001
111001000110011101111111111100100111010000111000110101100001
100000110000011010101111000010101110000011101110111000001101010100
10111011000111001011100011010011100011100001100111010110010001
10111101101010010000000001101010100110011011011000110100000001
1001001101111011111000010110000010010101110110000000111000100
1000000111011011111011111111111100100100111001000110101110011011011
1010001100111001110100001010011011011011000101000010110000000100
1010111000010000010100110100100110111001110000100001100000010011
1100110111111000111011111000001001111000011100111001010101011100
1001111110010011001001110001100100000111010101111110100011111000
1011111101101011100000111010100111010110011101111000000111011
1010111100000011100011011010000011110000010000000100011000111
110110110011101011100011011000110010101000110100110010101100110
1110100001110010010100011011001111111110110000001110000001110100
1011100111111001000011011001110010100110001100110001110000101
110000001011011011100111110101000001100100010010111101101100101
1111010111000111110100111101011110110110110100011001111100001100
1111000000110000100101100000010100000101011011100001100
111110010101110100000111010010110011001111111100010101110000001
10100111010110110010111101110010111001000010001110011111000100100
100001101100011100101110110010000010100000011001000111010100000
101011001111011000101011000011011000011001111011100011
11111010001000110011010100000011011101101101100110101101111101
1110110001110111000010101101100001101001001100000010101111100
11011000001110110111101100110010111110010011110110110000010
10001111001110100001111101011011110000001111111110001000011001010
100101101110100101010001000101010010101000001000001100000000011111
11010000010001000100101010111010001111110110110010001100001101001
100111011000101110000011110110100101100001101101010001110010010
1101100111000111010010111001101101010001111011101110101100000101111
101100001110111001010001111100111011110010001101101111100010000
100011010010010010111000000101101101001100011010010011010010011011
11101110101001000010101011110100110110101010110010000011011010
10011101001101000111110001000101001111101111011011110000000011001110
110010000100011001101100000100010100010001100110000000000000
110011001100110100010000001011011101100011001111110100100011011
100111000000001000111110001011000010111110100001110011000001100
11011110101011100001010100100010100100111110001110111111100
111110101000010110101101111010001111100011001100100010101001000111
10111100111001101011110110011011101111011000001101011110110000
1111001010001010001001101000101110110010000011011010000000001100
1000111010010010100001000001010110001111110001001100100001010
1101111000100010101100110100101100000010000111000010101001101110
10001011011000011100110110001011101001110110111100110011101111100

111000010100010010011001011011001101101101010000111111000
111010010110001100000111001111100101110111110000011111110001
111111100110111000001111110000101001110010010000101111010001111
110001101110011011010000001010110111101110000011011011011001000
110010010111101100010100101101101001111110000001000001111100101
100110010001110000100100100000000100011001101001111110111100011
100111111101100010110101001100110100111110000101001110101101
100100001010011011010000111011011000001001001110100001011010000
111001101000100001000000110111101000110000000100001111010011010
111001011101101011000010100110000001110001010011001010011111100
110111100101111011100000101110000001101110000010010011100000101
111111101011010000001100111001111111110001011101100101110000110
101111101001010111010111010011001100100110011100011011111100000
111100110000110000001100010111111110011111101001111111011100010
111100000011100001011110011111111011100100111010000110000100110
100000000010100001111111010110110111111111001010111111101010111
101101110000011110000100011110010101111111110001111010010
101101100011001001001000011000011111010000001000011000011111
101111111001101100011011110001101111000011111111110011110001
111011011100111000011111100110111000101111101010111111110011
100010001110111011110010000110011001000110001001101101011011011
111100100000010000010010111000110110101110011101111000011101101
100001011110111001111000010111111001011010110011001100010111000
111110111101001111011000110111110000011001001110111011100111100
100101111111101010111110011011010100111010100111010100111001101
100111100101111000111111000111000100111100110110100101111111
111010110001001101000010111010000101011010000101011101010011000
101100011111100011111111011111101011000111010010111011111100
111111100001111111100110110011001111010101111001010111001111000
101000011111111001101111001101000111100110110110011111111011010
110110010101011001000111001101111010111000011111101000000001
110100110010000111000100111011001010111011000000111110000010
100110110011110111101000101000010011001100100111101110001011111
111000001001110100110011011001010111101011111000001111110000011
110010001100000111011001010001100110000001010101100110110111
110111110111011110000111111001000101000110110010001101101100010
100011101111010001100110100000111101110100001000011000100111011
100100010100111111101000010011101010100110000011100101111010110
110011101101111111001011001111001110010111001110000011111000011
101000010111010000100110101010111100010110011101000111110111011
111001001011110111100000101010000110010010000100111000101010001
100010001010100101101011000111100001101111100110010110110010110
100011001101101000101001010111111100011110101111111001010000110
110001110110001000010100110100110010000011001111011101001010001
101011001100011110111001001000111111011000111111001000110010111
111101001011111110100011111111000001111010011001100000100110
111000001100101011011011001100010010110011001100001111110001000
100111111100000110011100001000101001010110111100001011000100100
100000001100011110110110100110011001100110111011110000110110000101

111101110110110100101101101110100001001101010111110111001100110
100011101001110010000011001000110100100100010101010001110101101
101000000011011000010101011000100111110110010010010101010101111
111111101010101111010101001011011001100101111000101101100000
101110100101001110010010111000110000011011111100110011101110100
111010011000111111100101111000010111111010001110101101100001
111100001001001110101101100001011011111001010011000011110110111
111000111101110001101111000110001110001010000111000001110000000
110101101101101100110000101111000011011110010010001110001000
101011100110110000101111000010110110100101111000100110101000
111100101010010010010110001010011000001001111100011000101111
101000011111001001101111100010110011000101001101010010111101100
101101101111011000100000101110010011001000001001010110101101100010
101101001000111101110101011011001000101110111110011100110011000
101000110011001001110111110000110110111100010010001011101101100
111100000101111011001000111100001010010110011001100110000110011
101100110010010111111111110110010111100010110110010110101010101
110010001011011000101110000011110100000101011001100000010111111
110000100100000001100111001111100101101110110100100110110111011111
10110100111001100010101110101100010010001111011000111001110001
101101000010001110001101011100011000011101000111110000111101110
111110110110010001001100000110111011011000100001011010000111
100001110100000110110101100110111000101111001110100101111111100
110010010000010111010001100111110010011101111011011011001001
100010111100100100111110100101010011000101001111010110010010000
100111010000111100011001111001111111010010111101000101000001100
110111101101011001101011101101000011011010101101101001110000000110
110110001101001110100001001110100010001101111010000101001010010100
111010011001010110011111101000110001110001010101011110000110011000
111001111011001000011110000000111011010010111110001101011100100
11000001001101101001010010000000011101000100001110010101110111
10000101001001010110011100111100101101100100000001111000100100011
100110111100011110000011011100111001011001100000111001000110001
110110010010101011101100111010010010010100100111000101010011101
101101000011101101101101000110110101001100110110010000111100010101
100101101110101001011001010100101101001110011000100001101101000
100000100101000101001111111111110000100011101110110110111011000111
111001100100000010100111011010000110001001100000111010010111110
100111001000000011110001101011110100100001101000000111000110011
111101110101111011100000011100111000101100111001001000100111001010
111101011011010011111010011011000000011111010001100111001000001
101110110101011011110001011011100111100011000000000111000000
101110101111011111110011010110010001100011001001011101000111001
100101100011111010110101011011001011001111111011001101110000111
111010001011011010001111101011110100000000111001001101001110111
110001011010101111001111010111000000110100000011111010111111101000011
101100010011110010000101011110001111011101011100111110101101
110111101111110100100110110100101101111001100100111100000010010
101011011001110000011010011000010111101100000011100010011001111

111111000001111111001000001101110100001101100100011110110111
1111101101101010100001100101111010101010100011011000011001111
100111011010001011010000101001001010110001000100110000010100011
101001000101111011001100100111000010101011110001011100110111010
1111001001101000111100111101000001001000011011110111000100011
110011100101100010011101011000001101111100100000011110100001110
110100000011000101001000110011010010011001001100011110100101111
110010101111100111111110011111011001110011010010000101111000110
110100111101000110011000011111101110011111001001101110110001010
11101111000110110001001110111100001100110011001101011101111011
110101100010101000111011011001000110011100111110001101110110100
1111100001110111000101110001100000000111101001100110100000011
101101110011101111001110100101101000011100111010110110100000
1111000101010111000010101110100010110100011010001011011011101
1110001011011101001111110111000010100110001010101111000110100011
1110100011101111001110011100001000110110000010111101001011001111
10110001100111111011101111100110001111101101001000010010001111000
111001000111110111010111010000110001010010000110010001000110101
1111101000011100000110011111100101100001101100100111111110101010
10110110100110110010011100000011111110000001110101111110011101010
1011001111101010001101010001001000111010010011111010101011000000
1010110101110010010000110010000111100000110000111010000011111010
111111000110101110011110101101100110100001101100101001011110110
110001100110011001000110011110100010110011001001000011100001000
110110100100000000110101101010001101000101011101111100111011110
1110100110110011000110011110001011110011000010111001001011010
10101000111001010100111111100011100111001101100000111110110100
111110010000001100000110010000110000010100111010011101100110011000
1000100111110010010011010010011010110001010101101111000011011011
11101101010010011110001010101100111101010011010001101111101
10111110010010110010000010010110000101100101111000100100111111100
10101100011001111001101100110010101011111010001111111011100
110001110110010011110101000011000001010001000110001010110010100
110001001011110110000111111100001101011110011011000000010101
10001011110000111100001011110001001101101111001101101111001010100
100011011110001100111010001011101011000001001110100011010110
101001111100010110010110000010011011001000110000010001111000011
1011000101110010010101111011111010011011101000111011100001111001
1100000011110101110110010001100100101100001111100010110011110111
11100000000000011011000101001111100111010100111111100011111100010
100100101101100010100101101100011000001100000101010101111010000110
1110010000001100000100001110001110101001001001001110111110111010
110111111110111111001101101010111100110010011110100011111101000110
10000011000010000101001000001010111100010001100000110000000
101101100110110010000000101010011000110001100100000010001011000010
110010101101111110110110001110011010001101001100101000010000010101
100111101010111111100011000010000111001100110010100001101111110
1100011000001110010100010110001101100101110010101011101001111100
101111110111110101111010000000100001110101100101100100000101101111

10011111001101110100011110100011100100111000110110000010010011
10110110011011001110111101000100011000101010011111100100111001
11010010111001010010110001011001111110110100111110111010110011
11010101001100111101111101001001100111110100111101001110110111
11101110101010110100001010101000100110000011010001110000110011
11001111001101010000010010101101011101101111001111010111010101
11111000100100000011000110000000000001010111100111101110011111
10000010010111110011100110110011000100111000011100010101010101
10111111000010000010101010001000001001000011000100100011100100
11000110111101100100001101000110011001001110010001000110001111
11100010100011001111101110000100110000101111010001010011111100
11100011000111010000111000101011101100111100000010010100001111
10010101010101011010011001100110111110001001100011010110001000110
10000100011010111000101001000101100110011000000001100000000011000
10001100100101101111110110101010100101101111010000111000010010
10101100001100110100111011000010000110001101000101000111010101
10111110101000010001011010110110100110011000011100101010101010100
10100110000000011000000100010011010000100100011111110110010110110
10011111101100111011101111110010111000001100111001101101000000010010
10010010010010000111011110110011100001011100111000010010
10011000001001100011001010100110000111011001101000001011111101
11111000000110011000001010010001001010101011101000100011001100
11000001010010010110111011000010100001001001000010101000011111000
10100110011000001010010100100101101010100110011000111101100101110
11000001110110110000001111101000011001110001110100001000111111000011
11011100101000111110111110111100000000110000001110110100000000
10011110101011000010111110010101010001001101011001101010111000
10101101001010001100111100001001101000011100001110001100001
11100000111000111011111000101010011111010100010101010101000010
10110100110101101100101100101101011110010111100000101111110000
11010000010001100010011101000110111100000110000111101000111010110
10100111010100110010100111001101000011011110010011000101110011000
11000010010101111110001011110111000000111001000110111001001
10010010101111101010111110101011110110100000011001100000000001010
10111110110111101101101111000000110001101100011110110101111110
11001000010010101111111101110010001001000110101000011001010101011
10011110011100000000111001101100110000100000010010001111110010000
10011001101111011010110011011111011001111111011101111101110010110
10101001000100011011011111001001010100000011000100101110111001100
11111010001100011100011100100011001101110111110100001000111101
10101101011000100100101011100100010001110100100100111110011110
11100011000101011101110011001000001001100001110010011100
11101100011000101110000011001010011100000011100001101100000011
11101110111011101111010001100111110000111101000011001000000101
11111011001111010010111010110111100110011011111000011100000100
11111010000110001100100010100110111001001111010101111100111111011
10100100111011100010000101000110001110000011100101010101000110000
10101111000100000101000010101001000010100000011110010001000011001
10100000011111000101111111101011000111011001110100000001011110001

101110000010101111011011001000011110011100011011000011001110110
101101111100100001010000011010010111010000011110111001110000
110011001100001110111101011100101101110111010000111101110010
110101010100000110011100111111010100100100101000011100111100
110111101110010000000110100000010110100000011100000110001110100
100000011000111111010101101100100001111000011101111001000001
111010000010100100111100110011110001010011101101011111110100000
100000100001110110110110000010011001000100110101011000001000100
100000100000100000010110010110101100111000001001011011111100000
111001101110000001111101101110000110100101100111001000111001
100011110000010111100001001101101001101001101001011011101010
110001011111011000101010011111100100111111010011111000010100011
111101010111101010011110110101111001101101110000001001110001010010
100111101000100100110111100010000011110001101100011111010101001
110000010001100111010101010001010001111101000001001011010011001
100000100010111000010011110001100100101101000110100110010001000
101000110000100001110000001011010001011100010011001101101101
111101000011111101100101101101100100100011000001111001001001100
111000011110010001110010001110100011110001101000001001011101
100000101110000000100111011110010101010011011101000100110111110
101000110111110111001000010000010010101110111101011110010011001
101101001011010001000100011111110000000101001010000000100100101011
100001010000010100111001101011010000110100100100101101110000000
100010110110000100110111111101110001100110110001010110111001001
100110101010000000100101011011110100111010100111010110111110
111000001010011001110111000011000110000010100011011010011111110
101011110100001100010010010111100110010011001000010110101111110
110101101110110100001101011011101101010011001111110000000100
110111010111000001111010000011110100000100000000000010100100001
101111101111000011011111000101111000111111110100001110111110011
100101011111101000001011000100011010011001010101100111010111101
111001110001011110100011100010010010101001111110100110000011
100010010101101001110000010011101011000010001100101001100100010
110000111010000001010011011010010100010001110101111010111000011
110101101100110011001011010111111011001110101111101100101101011000
111000000010000100100110010110110111111010010101101100010100011
101100100000010000010101011000000101011011010000000000010001011010
111010000010011000111101100110001010110010000101011101000111010
111011000011111101110111011000001101001010001010010111110111111
111111010011011110010010011001000010101100111100100000101111010000
100111100101101011110111110011010110001000001000001001100100
10000000010110010001110111101000101101001110110100001011100100000
111010000010100111001111101110000110110010110011111101001111
111010000011000001011111010111101100001110111011111010101001001
110101111001101000110110110011001110111101110101001101000000011
101100001011010001110100100011011110000001011111100000101110101010
11001101001011000011001101100000000000100001111110010010110010
11111000100101011011101001011010001110010110011110011011111
100110110100100000010001010110111100000100101100100100011011011

100000010011101010000100110010111000011101101101000110111101 00

111000110010011100100000010100000101100000101110100110110011 0110

101000111011010100011000000110011001111001010111001000011111 1010

111100000010011010000110100111001000110001001000001010001000 0000

101101110001010111011101000101011110100101111111001011011010 010

110011001100101101000100100100100100100101011101110110111110 100

101000010110100011110011101000101110110011001110010000011000

110010111001111011011010001010000010010000010101100111101010 0000

110010001101110110010101110011101000111001111010010001101100 1100

101011100100011100111101101011110000111011010000011011010110 1111

100001111101101101011110001011001111010111110100011010111111 1001

110110110100001010111011001100000111110001110100001110000011

110011001001101110000011010011000000101100111110100011011111 0

101100111001000000100001110110000011010110111100001000100111 00

100111111100111111110100111111110100101101000110010011011101 111

100001010010001101000100000111010011101110100001100010110010 1010

111000001100000110101111011101100000011011000000111010000100 111

100111011011011000111110011101010011100110001111011001011101 001

111101000001011011100000110110111100001001111011000101000111 1

101001100000010011000011101000111111011101111001110001111000 000

100001110000001000011011000111011101110101010000110100100100

111100011000110100001010110100010110000101100000110000010111 1

111000001111110000011001111111100111101110000010010101111000 010

100001111011010001111101101010011101101101011110001111111011 0011

111000101000000101101100000110001100010011111001101100110110 111

101011000111000110000110011001110011011101001100100111101101 0101

100100001111000011100001111001111101110000011011111010010101 1101

111011101110001001100100110011111011000010011010001100110100 1

100001010101011000000010011101111101001001001111100110101110 01

100000001011011000000011101100111101001010100111100011110001 00

110011101010101101011111101000111010110111001001110100010101 001111

100110011100101110001111000100101101100110000000100001000010 1011

110011011010100111101010101111110100110000001110001011000111 1101

110110001111111110001111110011011111100111110000101111110001 0111

101001000101011010011101101101000001001010101111101101101000 1111

101100000001101110010011010100101100011001111111100100011111 111

100111000010100011100100101101111010111111110010110101110110 0010

110011011111101101011111111110011011010110110010101111100101 11100

110110100101001000111101100011111101001111100110110111101111 1

111110001011111100101011100000011101011010100110010000010110 100

100011001000111111100000010011010100011001100111011111110000 0011

110011111100110110011101111110110011111101001110111011111111 0000

111010111101101000111001100111100010010001001111111001001111 1110

101111111001110000010100000110001101110110110000010100011101 000

111000000101011110010111011111110100110110101011010110110111 1111

110110111111111100110110111111111000101111110011100011100101 10110111

101001001100000111011111101111110101000000111010100000001100 1100

101000011110111000101100000010000011111100101111010001100111 0100

101100111001110011000111011001001011100100000011110010000001 111

100100001011110011010100000001010111100010011110001111101001
101011010111100001000001000101110000011000001011011010000010
110001010101011001001001101011101101101110100101110101001101001
100011110010001110101111010100101010101110000111111101001101110
101111101100110000100010011011001101001111110001010011011010100100
100011010001110110101011001111000000001100100101011111100100001
110011001111011010100011101000100111110010010001111100011001110
110101010110111100011110000011011110110100110000010000110110110
101111000001100111011010000011101101000011100101001000011001100001
111011101001001101000000110010000101110011111110001110111110000
111111000001110000001001111001001111001111000001010110001011
100110101011011001100111011101010000001101111010100111010001001
101111100000100000101100110101111111100010001011111111100110110111
110010001101111011110110010001000010100110011000011111101001110
100110011000110011010010101101101011011010110110011001010100101001
111000101001100010111011111101000111111010101001011011001011101000
101101011101010011001010011010101111111100100011110010010000101111
101000110110101100110011010001011111001100010001111110100110011
100100101111000001100110001011000000010000110110011100101101100001
10111011011000110111000100101101110110110000010001111100101100111
110000100011110010001010011010010100011001111100101101011111010
101001010000101111101011111110110011010101110111011011011111000001
111010110111101001000111000001011011010011001111111000100110100111
10000001011001001011000101110000111011010001101001101001110100111011
110001110001000011111010011000111111000001101101000001011110
10110001100010010011111110010111111110000010111111011000010111
100001010010011100010100101011000011011100111110011011110100
10100000000011100010101100011101000001100100010000100000101011010
110100101010010111101010000001100010011011111111110001010011111
110110110010111101100000110110100000011011010001001110010011011
110100001011010001010001101101100100011011111000101001001001001001
11101001101101000001100111001111000101011111010000010111111000100010
1101111000000101010000010111101000101110100111000000001010011011
111011100100101110011100111011101100001111110101000001110110011
10110001001010011001000000111000000011110000101100000000101000100011
100110101110011111111111000010101001011001101000010110110010001
11010110110001101111100001011111101000110101110100100101100
100110100101100010101100110000101000110001000011010111001011110
1001110100111101111011101111101001011100100111001101000011111010110
11001111001110111011101000011101000000011110010000001101100111
111011001100001110110011011111100010111010000111111010000011111000
1110001011011101000101010011000000110011001110111011110111011101100
100011010000100011111110011001100000011011101100100100111011001111
1011100011001110000010000100000011001000111100011011011010101
1001001101101011101011001001101111000110001111000101101111001100
10110100000110111000101101111110010111111010000001100000101011111
1001001000111011011011011000111100110001010111101111101001110110111
110101011011101110100010001100100000110100000110001100011000
10110100101010001000000101000100010010010010000000001000000000000000

11100111100100011011111011100001011010001011101101010111110000010
10000010110110110101000000011011011011000010101111001110100010
10010100110100001111011010011011111111011000111101001111110000101
101011001100010101101100010010010011110100001111100001000101100
10100011011101001011111010001000110100111011001111001110110011
11111000111010111010000101100111001000101111001111101100111110111
1111001110110011110111110010011110010000111011010010010110010010
11101100000111000000011101011000110001011011111001111110000
110110100011110111001011111010011100111001101110100010111
11011101110100001110011100001110000010111111001101011101111110
1110010111100110010001101011100100110000010000111000000110001
100110100010111101110110110011100010101011111100011011111110010100
10000010110000001111111010000111000010010100000110101111101001
10110111100111101011111110111010000000011010000011011010101010111
10001111011101001101101010110000100111100100011111101011011011011
1111101000000111011101111000010111100000101011000010100001101100
101010110011001110111010111011110111010010001010110111101100010000
1111100000001100111011110110101011001101011011110000100001010100
11110100000101111001011101011100000110010110110110010011011011001
10011110110001000111110010100110110001010000011010000101101
1010101101000001100110010101110111010010111010001010001100000111
100000011010111010101010111001001001010000001001011100010100110
110010111110010110110011011001001100010001111100110111010001000
1111000111111100010011001011000000110001000000110011111001000
1011001110010101001111011100001110001011101100010101000000001011
100100110000000101000110001000111110001111100000111100000000110
100000110011000111000010110100010011101110001010011110000001
1010000011101011000111101000000001011011000111010011100100111011
110101101000101111011110100001001111011011010111001100000100101
11100000110011010111110100110111100001111010111101111010111
1111011000110101111010000011110000011100001001101111100100111
101101101010101111000011101110100000000101000000000010100010
10110111001101110111110010010011011000111111110000011110000
10001111101001111111101011110011110101011000001110011101001111
10111101000100001101001001111000011001110101111111010001110101110111
11010101110110111111100000000100011000101110001110100111111101110101
10111111010111000111000001110011100011110100011000001111101110
1010010100110000010101011100010110011101000011111101011101111101
11011101101101100011000001111001110011111010000001100011001111
1101011100101111111010101010110110101111011100100011101110000
1101000011011001000011101101010100111111001001001110000000001101
101101111100000110010100000011001100010011000101101100111011110
10111101110111001001100010100011000001011011010001011010101011000100
100010110110010100110010011011011110010111100000101010001100010
10111110100011010111000011100110010111000100000111000000000110
111101110110111011001111011001111110110110001010110101101110000100
10100001101101100010110101110000111010100001010011001101111100
10000101001111110000011101111001100010110101110000100100111000
1110111110101101111000010111011110110101010010111011000001010

111110011010010000001100000011000000011111001111011101110111011011111100110100010011101001111111000101101111011101111111100011011101110110000011110011110010011000000011101001011100100010001011111111000100110101101101011011101101100111111010001111111101000111110111011111111010011100011000000110001110110011100010101011100000011101011010011000000011110100001101101000100111111001000111100010011101011101110110011110000011111000100110110100000010011111101111101010001100010011110110101001111110000111100010011110011011010101110111100110110010010010010111101001010110001101010111010011101001100001111100110110010001111101000101111101001101111011000000101100000001010111001000110011000010001000011001100111110011111111000001100110011110010001101100111000011010000110110010010000111000100100011001011011100011010101000110111100010000100001000110001011110011000000100001010100000100001111110110010111100001001010101101001011000111110101000101000110001010110111111110101111100000111111110001010011000100001101100110110111101100000011000111100000000001001101001001110111001100100111001000000100100100001111110001010011101110010101001111000010101101001101000011110100011011011000000011100001010010110100111001101100010010110001010111101110010101100110011110100111101101100110000011100011001101011011000111101000110011100011100111100000101001000100111001101111010011000011101100011001111011010101010010100001000010000110100110000110011001011010110000101100101011100010001100011101000001010101100011011111110011000001000100010001101111011010100000001000001100001100001000001010010011010011000010001000100010001100111100100100001100010001100001111011000101001011001011001101111011111101001001000000111110110110101100010110100110110010010100011001100011100100011100111111010000011001010001101000100000101111100110111100001100010010010000101001001000111001101111000011100101001100001001000101110111101100110011011110001100000100010111001000111011100100100001100000110001001011111111000110110011110111110110010101001101111000110000010010010100011001111110101101011100000100110101000010000010011001001011010001100011101100000001000111001001101001100100010000110011011110000001000111110000011100000100111001100010001101100000001000000000001100000010100111100011001011101101111111101111101100110101100100101000110010011100110110000010011000011000011000000110000000111010001100101101111000110000100101010100011000001110001001000101110010110101001100111010001101101111000111100001100101011000001111110000110001100100110001100011101000001001000010011110011000110010000010011000010001100111100010001111100001101000011000110110101110001101110010101000110011001101100101000110010010101110101100111100000010101000011000100100100000100111101101100101101011110101101010101110010111100011010100010001110101101111101110011010000011000010111111111110011101111101001011110100110010111101001110111111011101000110110101001010011110000000011000111100100111000001001001100000110111001010001100101111110000111101110010000101110010100011111000000111010010100000111000100010001100001100001011100101000111110000011101001010000011000100010001100011000000

100111011001111101110101000001000010001001100101111011000000111
110110000010010010100101011001100000101110000101111110011010000
101000100101100100000101001100111000111010000110011101100100011 0
111111101011100011010000001011100110011010011011000110100001 01
110111000000010000010110011000111001111101101001000110111101101
111000010001100111111101111001101100100011001111111011100110110 0
110110100101001000100110011001011010001010001111011011010011
111011011100010000101011110101010101001010010111100001000000 101
101100101100011111001001000001000111010000001010010111001000111 1
110111111100000011000100010100000000100011110110010000000011 11
111000011010101001100010010000010110001000010010011000001101 10
101001110011001100001100100000001010000100000100110000100 00
111100010100110111010011001100010101100001010000100110010010 01
11100010110100101001000100010001011110000110001001110100010100 10
100000000011000110000111100001110101011000011100111100100101011
100111001000100011101101100001111101100010100110101111000111000
111110100100101110100101011010010010011101001001010001100111101 1
100100111011000000001011001000001011000110001111001001010101101
11111000110110110010000110111100000000000110010110000101
11011010001111000010010110010000010001000110011001110000011 1
110000010011010010001010001100100101100110000111110101111010110
10011100110000111100111010100011101010011000000101111010000000 10
10100001010000110001111100000001011100011001110100010111111 0110
1111110010011000100011100000011110100010100110100000110100 11111
110111101001110010010101110000010010101000110101000111111010010
111001000111100100000000010011000000011001010011001000111011001
111101110000000101110101000110011100101111001010010001110010 00
110101101011110100001001101010001100100111110001101010010110 1011
101011010011101011110111011100000101100110010100011101001111110
111111010010110001101111000100010010100110111100110110011110100
110001001100000010010000011110101010110101110001000100001010 10
11100101100110100100010000101000001011001110100000100010 01
10000000010010010110001011000001100001000001010101100001100100
111111010001101001100100100001100100110000011110001001100000 01
100011101000000100001011001110000111111001000100100100000011 010
110100111010100100100100101001100101101001110000100010000000 0
101010010010010000101111001111100100011010010001110101011010
100011001110000101111010110101010001101111011000000101001001
110110011101010011011011001101011110111001101111101000000101 1
100010001110010110100011101000100010110010001110101101000011 101
100100110001110110000010111001001101111110000111100111001011
110101001111111000000101100010010001110110100101111011111010 111
100000110010101010111110100000011000000110110001100000011 1011
100010111111100001101011101101000010110011110101010010011100 10
110100011000111000101001100111100100011101101101110000010010 110
100001101111011110101010011110010011100110100000010111100011 01001
101100101100100011000011111000101101000010001000001110101011001 1
101010011011000011100101011010000101011001101000100101101000 00
110100110110100011010011101011100111001011110001101100110011001

100011001110011010111000010100000101111101110111001110000011111
110001011010010111010001110011110001100111001100100111110010000
101001100110110000010010010111000011111010110111000111100100100
111001000001001011000011111001001101001101100011001111000011001
100001001101001011110110111111011000001110000010100101000000110
110010010011101000010010000101100111111011001101100110000010001
110101111100100010001001110001001111110001110101001110110010100
110100110111101011110111000001111000110001010000100001101111011
001100000100111010100111100000011111100010101111000001001101
100100100100111000010101110000100010000110111100101100001111110
110111111100101110001110001011110000111101011010001100101100000
101110110110001110110100001100110110110110011010100111000001001
111111001001000011010000101101100000101101101001101001101011
100011111010000100011011001110101110000111100001111011011111100
110011010001010011000111011001000110000010011011001000111101011
111010001100010110110101000100001100011000111010101111111101100
101111011100011110111001110010001000110110111111000011011111000
110011100000101010011010010111000000100101111001111011011110100
101000000110101111110000100111011111001001100101010111100000
100100001101100100010111110111011110111011110110110110100000
101100000101011110111011000111111110100011000101101000001100 1
110001001101100101111011001101100000100000110010001101111000 1
111001101000011100011010110001001011001011011010110111111001010 0
101000101001110011110011011100011111000110001011101000111101 0
110001100101010010010100100101100111101011100100100101111101 0000
101010101100000001111100111100111011100001001101011100110010001 1
100000101001100001111001011001101000110000110011001110001011101
100001011011001001011011111100101110111010000000111101100000 10
101111111111001000110001111100000011111010000001101000001011
110000011101100000010111110111011111011010101101111111
101100011011000100111010001000111111110111011111011010101010110
101010110010100100111100001111110111100011100111011011111
110011010011111000100011110100011100101010001100111010111000 10
100100111110000101101101000111001101100101100011101001110110
100000010001011011010101100100101110111011001011010000000101011
100110001001011001011100000010010000101000101001111111001000 1
100101011000100101110110001001011001111010101000111010000000110
111100000111101011011000110110000110110001101001110000000111011
111011111011010000111110100001000110110000010110100000111101
111101111010011010000100010111011000100101000011100011110011 10
110110011001100001000110011000011010101111011001100000011001000
111000010101100001111110010111011010100011000000110011110001011
110010010010001111110010010001110101000000111011111110000100011
101011110111001111110110010011010011100000110100000000101010110
110011110001001001000001010101100101111000101110000001010000110
101000001111111011000011100010001110001010110101111000101000111
100011111000001110110010010100110010010101101101100001111000000
101100100001100100111011000111000011101001101111011111001111011010
111000101011011100000111101100001001010100101001110111010011011

```
100000000101011100000000010010111000000001100111001011110001011
111111100110110010001110100001111011000111101010111000000110011
101011110111001011100010100101101011111111101011111110000011
111111100111111011010010000100101010000110011100100111001111101
101001100100011000111111000111111101010110111100011111111111000
111100001011110110011110011011000101110100101011010011011011110
111101100111110111111111101110111111111110111101111111001101110001
110111110101110011110111100101010101101101001101111001010000110
100001000101011011111000000111100001000111110001111000111110001
110110000000100100110000101011011110011000001100011001100011
110110010000001111101000000000100010111111000100100001011111
101101111101100110110011111100001011111101001011111111111010111
1101100000010000001100110111111100000010011110010010001011001110
111000000011101011110100000011101001001111111010110110100100010
111101101111111101011111111100001011111010001100001111011011101
100011011010010111001111001100010011111000111001000111100110
111010101101101001011110101000101001001010010100101001111101010
111001000110000001011010001101100100001100111010001001001100000
101100111001011101011011001001001110000110011001110011110111100
110011000010011001001000001111110010001100100000110011110100100
101011100001001111101100100101110100010001101110111100101110
110111101000100111111010000101010100000110011111110001101111111
111001000110110011001010101010101110001000001100000111011110010
111011011001101100010001101000011001101110000100100000110011001010
100111111010000111110010110111011000001100000001100001010001100
101011100010111011101001111110111011100101111001101001111110
111000111000100001000010011001101110010110110000001001100000110
1000111010001010011000100110011100100011111111011001001011111010
111001101100100011100001000100100010001110100011101111010110011
101111110110010000111100000111010111010010111110100011010100111010
100101010001001101000110110010001010111001000110101110001001
111010000101111000101001100111101100110011011111000110011111101
101101111110000111111100110110101101111100011101111111011011100
100110000000100000010111111110011110101001100110111000011111111
1000001100111011011101110011101100110011000011100010010100110110
111001010001010010111101010111000000111001111100000110010110100
1101011111001111101100100110110110111111100111100011111110001001
1101001111110010111110000011011100011001100111010110000000100011
101010010010100111101101101100011100001001100110001101011000011
110101011101010011000100111111110000011110110000011101110100010
1111111001000011001101100100110101101000011111000000100001011
1101000011010110110010110101111110000001010001000010010010000011011
101000000000111011000011110111101001001110110010001001111100000101
111001100100000110110100100001110110001011001011000010110111011
101000111110010011001011000101101010110111010101111010110111
111010001011011010001011011101001000101001111101111100011011101010
110011111110001101000100100010010101011111101100101010011111000000
110001110110000000110110001111101100100001001110001001100110011
11001100110001011111100011101001110111010000011111010010101110
```

101101101001101000101111000001001100000110111110101010 11010
101101111011110011011101100000010110000000010110100101010 1101
101001111010111101000001011001001100100100010101000100110
101000101110100001011010001000011001101000101000001100010011
111011011000110000001001010111011100000001000001101000 11111
110110110001111001011001000110111101111110110010011000000011000
111111110001101101110110100111111101000111110111001011001 10100
101000011111111010101110111100001001011001001101011010 0001
111000001000111010001001101011000100110111110111011001 1001010
111101010010111110001001110001100110011001110111010111100100
110000011001001101101101101100010011101111011111011000011101011
111000001111000010111100001101110011000101101111000001011111010
101110011000110010001001010100000110000100111111001011000111111
101011001000011011010010000111111000101111101001111111111100111
100011111000011111110110001011011001000111011100100101111011100
110110001010000111110000111110111011100100000001100111001 11011
110011011010111001010000111100010011111100011111100111111 1001101
101111101001011001101110011110001111011011001011011110001001100
101001101110110100001100111000001011110111001100100100100 10010
111000000101100110001011100011111011000111100010011011000110000
110010110111100010000001011000100001110000111110101110101 11010
101110001100110100001011011000010011011100101110000000 11011011
110101111000011111101110101000011011001010111000001100111 10100
111110010000101001000001101111000101010110110110001 11011011010
101010000011001100001100001100100011001001000000 11000011011
110010011011000111111010100101110001110011000011111 0100
111110010110110100100010111100110101101000011101111000100111
100010100010100111001111000101101111000010000111000100001111000
111111101110111110100011001101100010001100111100111111 11010101110
101110110101101111101100010100000011001111010100110001001110
111110110100011110110100001001001000101111010110001 10010011100
100001011011000010100011000101101111101110110000101110 100111010
111001001100011111101100000001011110010101111011100110011111101
101111001100100010011000111000110111011111101011111110000001011
110000101111110100000101101000110011000001011011100111010 11011
101000101110001101000011111000110000111011000001011111110000101
101110001011000000111010110001010100011011110111000011 011010
101111111111000010100110110110110010010101100100011 11110010011
100000011011001001011000111000000111011000111011110001 00111100
101011011110111010100011001100111101101110111001110 1000010111
110001101100010000010100010111100101101101001110101111010111110
111010000101000000111100110101010101101000011111101101000 1111110101
111010101011011001100010000001101110001101101000110111010001 1111
100001111010011110011100111110000011101011110011001111111 110000
101011101110011110001001101011110010110111000001000010111100 10
100011001111111100111110001011001101010000110110001011 1110010001
100001010100111010000001001011000101011101010111011000110101 1101
101110101100000011111110001011111000111010001011000100 00111101
100001101100111111100000011111011101111100000111000011110111100

110000011111000101001001110010110110100010010110110000111100010
111011100111110110110011101000000000110110001111110100111001
101111001110001111000010111101000101111001110000110110000011
110011100001110001011101111101000110111100001111011101101111
100011110001001111010110001001011101101001011001101101110000
110100000011100011011110100011110111010111011010011100111010
110101110110100000110110001001110111110000111010111000000101
100110000101100100011010111000010110011001000111100011110
1101010110101011001100011111000011111101110001111110101010110111
110110101011110000111011011111101010111011010000000101100100
111000010111011001111010010011001001101001111110001110111010
1101011010111101001000011000010101011011111010111101000110110011
110011110101111000101100100000110001000100000111001000011
1110010101100011111001101100011100110110110101101000101010111011
111110010110011110001011111101011100011111010000011110001110010
111110010011101111010110010000111101101100111100111101000001
110110101100110110100001110011000100001111101001011101110001001
1110011100010111111001001001101101010100001101100010001111
100111001011110100110110010101100011001111001011101111110111111
100110110101111110000011010111010100110000010100111011001000011
110000101101101011011001110001011100101101011110111111011010
1000001011100011001000100010001101100011000110100011000111101
110111111000110011111110011011111100011001111001011111010110011
110000111010110101101101000111000001100000111000101001111110000
11101100111010000101111010000011111101010110001111101011011111
110101110111111011010101111101111100110101110000111000110011110
110110001100001001110100000011001110001001000000010100111100011
10010100000011010001100000100101000100100101110101101101101011011
1100111110011110110011111011011010011000010010010000000010011100
110101001100001101100100010000011100010101101111110011011010001
110010001110100001110101010000010001101010010010100011010010001
111111101100100000100010001100111001111111101101001100001010
1111100100111011100111100110111101010111101101101001100100111001
101101011110010100110100001101111000111101100110011001111100111
10110000100011001101101110110011000001001110000010101001111101
1010100100000111011110111010011010101000100001000110001001110010
11100110000010011110110010001100110111101111111101011010010101
10001100001110000010010101010001101100111000011100011010100111000
10001111111100101100110101011100101011110100111101110101111111
110000001100001001011000101010011011110101010000110100011010
1011000100011011011010011001010001001101011001101100111001101
1001100100101010000111010101111110111000011110100011100100011110
100010010001100010010110011110110001001111000101001111010111100
100010101110000100110010011001100000111000100100101011001110000
100011000100100001001001010011011001011001100100100010100111100
110010110010010010100111000101001010001111001011100000100010011
101101101110010111100010000100010100100101100001000110111111011
101010111110000111110001000011101110001001010001101111011101

```
100011100100011110000111001101110110011111011011110110110100100
101101101000110000100111011110110000101100111001100100010000110
100111100101100000100010100101000001011011101010011110101100110
110101111010101110111011010010010100110011000111110011000111
100010101001001101010010100110001101101010111000110010100000111
100100100101110001011110101100101100110000101100000001000100110
101101100101000000101011000000100011111010010010001011100000011
110010110000010010010111000001011011100010001101100111000000010
100111001011100100000010010100110010111000101110000000110100
111111011000101000011011100010100000111000011110110011110100001
110011011001010001101011011010000001011101001110010101111001011
101010011111100011000110001100101010101101101100011000101110010
111001110011100000110000010000010110100010100000110001110011100
101000001001110111011000101001110010110111001101000011000011111
111111111011110010111100001000101001010001101010111101010111110
101001000101001011110111100110110100001110001100110100110011000
100100010100001100010001010000000001000110111101000000011100010
110000001000110100001101101001000001101101000001000100100111000
110101010001100000111001000111001001000010000110001011011010000
110011110100111100011000011111010000111000110100011001100111011
100101100010111111111101100010101010101101111001000110100001010
100011001011110111110101011100110111100101001000111001001010000
111111100101100100111110001111110001110001011010000101001111100
111100000111101000100011011011000001100110000110010100000101001
100010011110000101001110111011110111101111011011010100011010101
100010101010111010011000100011011010000110100000111110010111010
101101110110001110010001101000010101111111101010001000000010101
100110110011100000100110101011110101101110101011110100101000100
111101011011101100000011111001000110101100001101000100100000010
111010100001010010011001111001001000111101000111101000111110000
101101011101010011110101100110010110001000101010000111001001001
101000000010000011111101000100010111100101100110110100111001010
101011101111010101000100100000110000110110000001000011101000101
111001110010111001000011100011010100011011100010111000101001110
100110000001001100000000011010000011000110001101101000001000101
101101000110011110000001001101011101111110010100100110110100
111110000011110010010011100011000101001000110010000011110100
110011110010010000111010111110011100000011100011000001011100
111011100110100111010101010011011001011001100010110100100011001
110111010001100011010001101101111000101010111001101010001111
100011111100001111000011010011010101011001000110010111011001100
100000111001011000011101000010000011101010101000001001110111
101110100010111000010000111111010000110111010000111010011100
110011010100000011100101001101000011010100010001100011100001100
101010001010000111000011010101000010010100000010010000100001100
100000100101110011100100011000010010010000101111000011010001100
101100110111100000100110110010110000000010111101110010011001100
100101111011101000110000000100111101001110101000100110100101100
111101110011101111100101010010101011001010110000100000010011011111
```

100000011011110011110110111101100000011011100101010100011010
100000001101110010110011010110011110011011111000000100000000001010
100111001011010110001010101011100000111100100000101011111011
100101101111001001010101110110001100001111011100111111010000
111111001000010100011001101000110110011001001010111110100111
110111011101010100111100000010101100000101010010101001010010110010
111010000010010111100001001111110001111101001110000111111010100
111110000110011010110101010011001100110100011101011101100001110
111110001110010000110000010001101100010001111101101101011110001
100000001111010010100011001000101000010000001101101001111000000
101011101000101101101110001101101001001010111000101101010001100
111111001001111100001101100110011001011010111100001100000001001
11001100110010010101110010101010001101110100010011111100001
110100100011001011001011011111010011010000111000110100010110111
110110111010010000101101100000001100000010000110110101111110000
10010111101001110001011111110110010110011000011100001110111100100
111011100101111100011011100101000011000101111101100010011010001000
100011010110100010111011000001001101011101001100101100000100110
110100000101110000011011110000101101100100110101110010011111111
101100111010000100001100110011001111110110110011010111111100010
100110000100100100110110011010101110110110011111011010101011101101
101011100000101000110000111001100111101000000101100111000010110
100110101011100011001101110000001101011001110100110011011111011
100011001001011011010100001010011001011101111110011000011010
11000100001100110001111111000100001011011001101111101001111000001
100111110111010001111110110110000110101101100000011000000100
101011111101100001101110010001101011101101011110110111001100010010100
110110000011000001001100001000001101100100110001001111110001111
101110011101001001011001001100111011000001000110001000111100000
111100100001111101111110100001010011011000011110110000001000000
100011000101111000110000111101001100001100010001010101101101
101001100100001110100111100010100110001011111110011101100011001
10010110011110011011110000101000100000100111001110011101101011
11000101000001111000010011000100010110101010111001001000111100
10000010100100111010001111110000011111111010010010111011000111011
101111100011111111001100000111000101001010010111110010111001010
110111100011011010001100111000010110001101100111100110010000000
111101100100001101000010111010000100110110011011101001001100010100
10001110101101100010111011010010100010101011110001101111011101010
110110100011101000111111011000111101101000011010111010010101111011
110000001001000000001000101011101100110111110110100100110110111
100110100000110011100000111100100111001110010001110110110101000
110110011110010011001000100100111001010100011001110000111000
111100001001101110100110110100110111000001011011101001010111010
100011100011111110010011100010001101000101111011100101101101100110
11000100111001000011110000100101010100110110001011010111001111
1111100101111101011110110000111111000011010111010001111000110110
111000100010100100110000100100000011011001011110100000110000011
10100000101001010100000100100001000111110000101100000101100111100

101001010101111100010011110100111011000001010000111111000011
111000001110001000001011111011100010111010001101111010001111
100000101000011101000111000001010000110010010111010111001110000
111101100100000110111010011000001010110011000011111101100111110
111111100101000010001100110101111011100111010000001011000110100
111110111110101000100111111000111100010011111000001100100100011
100110101111001011000000111101010101001011111100101111000010111
100101101000101100100010010110000011010000011111111101110000011
100000111011101001100111000000101101111010011111110101010000111
110011010000101101100000011100001111100011101111110101010110110
110010110011001110110101011001001001000110100000011111100000011
111001001000011100010010100101100011100100100101100101111101001
110010011011010101000011111000011111010000100111010001111011111
111101100010010001000001100100110100110010000101110000111100111
110001000110001010010001001101111011000011111100010101000101011
110001010011101010000100110111011000001100010101101101110001010
110111110110010110000100111000100001101101011000110010010000011
111010010101011110100010110101110011011011000100111010111100101
110011000001010111011101000011000000001010111011111010101111101
110111000101100110100100101110001100001010001010100001100110011
101011000101100100010011100010010011101000011111010000111000011
111110000101010010110100111100100000100010000101010000111100000
101100111011100100010010011011111110111010001000111000100110000110001
100011111111100000111111101000111111111010011001001110110011100
101111111000100110010010111100101111101111010110000100110111110100
111110100001111110001011111001101111010011111111110011111111100
101100001101101100011010111110110001010001001111110110011000001
100000110000001000101000011010111011000010110011001101101011
100000010010011111001100111111001010100000000111101011000110111
111101010011010110011001001001100010100101010010101110011011100
111111111111001111111010100111100110111101001110111011111100010
101111111011010110110011111010100111111001100111100110110000101
110000001010110100000011101111101110100110010110010001010111000010
111110111101010011110000011011010110111000000100110000010101001
101000010100100101001100010100101100011010010111110110000001110
111111110010111110011011011100111101110011111000010111100101010
100010000010100110010000000010010101011110001001011000111111111
111000111011000011111011000100101001101100000100101000101000001
111111011111111101011001111100000001110100100111111111111011110
111111011110111111101001111111110011011111110111111111111011111
101110100101001000000100100011111001001101000011110011011010011
110000000110000011001100011111100001111111100111110001001000100011
101111010101011111111001010110011011000100000011001010100000111
101011110101000010100001110000101011110111010001101011100101011
110000001001110100010111101010001011011011110100011111110100001
111111000110111101000000011100001110110000100000110000001100001
100010100110100101111100011100111100001111001111011110110100001
110011001101111000011111100001101100101001100000000001000001100
101001110001000110011110001110011111001011001110010011000001000

110000100001000001010001110000101101011001110110000101110100001
100001011110100110110110101101011011000010110110110001100111
111110101111001110100010110110010001010111101100110010011111
1110101111111010111101111100111011011100010111000010000110101111
101110010101101000110001010000101000101100000110100111110001100
110010001100000011001011000000011111001011000101100110001001111
100110100001000101111000101101000111000100101010011111011011110
111010001110010101011111101101010001111110000111110000101111111
100001111000000100110000011000110011011011111010001001110001001
110100000000011101000010100001011001101101011111110011110011
101111011010011111101111110110000100010110010111100010111110100011
111111000111111100001100110010010100000101001011010111100100110
1111100011101110110101010111111101011111001000001000000111101100011
101000110000001101110100001011110110001011100101111100011000010
111001101011100110111110000001110001111101110001101101010000011
101010110011111010001100111101011001100111111010001001110000
100111110001000111011001000111001111000101111001111110000011010
11101101100101100111111011101001110011001110101101110001111100001
101110110001011110100000011101010110110110000000011110010100
101100110111001001110001010100011010001110100001000001101100
10110111001100000011001110011101000010111101010110001001110000101
10011110111101000101001111100000010001100010110111100000101001
1011011101110010000111101110110111000000101110001001000101100
111101100110011011001011001001001110000001111111000111000111011
1111001010101101100011011110101110101111111100000100011111100011
10000111101111011011011101001011001101110010110010001111000011000
11001100100011000010100110000000100111000011111111100000110111111101
10110100001010101101111000101010010110100001101011100000111110
1111100000100110100001010011010001100110111100111000110011011110
100111101101011011110001101101101001101011101100010100011011010010
1010011000011000001010101110001010101011100000110100000001
111011100000011111101101100110011011110011011010001111101011010
11100000110000000111100100010101010100100100101011011101110000001
1100010100100011000100111011110000010111010001010001110111100
110000111110000000010110100010111001111100101100011111010110110
1011011100011000110111100101010001001110001001001010111000001
10111111000101010110101000110110000001110100001101111001000000111
10001011111001000011100000110111111000110011110100001111011001
101011110010101010100100001001111101011101011110001000111011010
1000000100011110111001001110100011101001011011111011101011110000
11111101000100101111011110000011011100100000010110001010011001111
101110001110100010101011000100011001110010000000110101011101
11111001011110000011001101000001111100111001111011011111111000011
1111011001000000101100011011100010110110001011011111001000101010
110010010110001110001001110000111001111000111101110000111001111
11111000010001100100101101100111110000110100001010111101000101
11100000001001110110010110011100100001100010010010110010001101001100
101001111010110100001110011111101010111111100111100101011100100100
110111111110011011010000001101001101101011001111010011010100000000

10110000101010111110100011111101110001110111010000101110001010101
11100000011010111010111011011110001101001000100101011111100110
110101101101000011111110000101011001001100111100100111110000001
10111011100101011110101011110110011100111011110111100000011101
11101110011011010001011000111000000011011010011111011100001110
10010111100111100100110111110010110110100001100001111010001
11111111110011011001111001011100000101111101011011111001111111
11100101000001110010001011110100011000110001100110011001111001
10100001000000101011001001100000110101110101001100010101001000011
11000100110011011011001101111111100000111000100010101011111011
10100110111111100111001100100010001101000010110110101111011111111
11010110001011011100101011011110011100001100110110110110001010 0
10011011001110111100000011100110001001100011101000110101011111
11110000011001100110110010001011011010010010100000010101110100
11100011000000110011001011110110001000110111011101101100010010
11011111001101111110011010111110010010110110100110000001111001
11111000011100011000001101001111101101010011101111100111011111110
11101111001111001110011111000100010111100001010001111011000110 0
10100110001111011001100111001111001011010111010101101110110100 00
11101011110000110011010001011101011000000011000110110001011 11
10111101001111010001011110011100001010111001000011111010000 0
11011000011011110110100010100111110110111110001111111100100
100101110100011010011000010101001111101000110110100110001111 10
10001000110101000001101011110000011011011100011011111011010 10
1111110100001110101110110101011110000001001001111011010 110101011
1100000011100111010111111011010001001111100011101011101 0
11000000100010110110001011100000111011100100010110110101100
101100111101000100100001010000111001000000011000011111110000 0011
111011011011010010001110010011100111100101111110001101111 11000
10111111101000011100011010110110010111111101111111011101011 101111
110100010001011000101001001011001000100010111110000101110100 0101
11110111011111111000101111101111100100001011111011011010 0111111
110010000010110100001100010010111001000110011110011111 0111000011
11101101111101011010110110001001000111101101110101 11101001 10100
11011110011101101111100101011110100101001111101000 1011000000 00
10110101111101100101100111011010100101100100010111 0000000111001
11110111011101111011011011010010110110100100111010001 1001110000
10000110111111111100001101110001001000110100100001001110001000
11110011001111001100010010011001000001100010001100100010011 1111
11000101110101010011111010000101010000110110011001010010011 00001
10001011110000000011111100011111101000100111101000 01010010000
1011100001001101101000111111010101111110101110101110111111110
1111101100110000011001000110101110000011101110010000 1011111110
11001000100010011000100101010011000100111000000011000101010 10001
101101011000000110011011000100011100010101000011111100000010
11101010111011111101011011010001011000110011100111000001110000
1110100110101110011101111010000111001101100001101101000101100011
1100011110010001111001000111010111011100111000000110110000000111
11111011011000110111101100001001001101100111001101110101010011110

101000110010110010000110001011010100110010101101111001101110110
110110001000110010010010100101110001100111011001100110111011101
100100110011100110011110100000011000010101001001010000111101000
101111001010000000100101111010110011100011100010100011110100101
100100001100011110001001110001100011010010011111001111101101111100
110111001011010011000100010111000100011000100101001001000010000
101000111001000110001100110101111011010111010110000110000010
100110010101101011100110111011001111111100100101001100110101111
111100110100101001101111001000100101000101001000001100000101010
100000100001010010010001000011001111011110111011101010011011010
110101000110100011010000010010000101110011011000010101110001
100100000011110010001110010001110101011100001010100011000110001
110010000010011111101111101101011111100101110100111101110111111011
110111010110011101000110100100100010011110010011111000011101
100000011101000100110001100000101000111000001110101011001100111
110010011100001011010100101111111001111111100111000101111101100
100100010000010100101001101110100011111110110100111000110111
110100011100010011000011011001100100110110000000100001100100101
100111101100110011010011100000011000100000110100100011101100011
110101010100000010100110000011100010010010110011101000110100000
101001110001100010110000001001100011100100011001111011010110111
100010000001001010101010001100011110001100100000100010100111
100011010011101010110111000110010111010100001110001010110110110
100101111011000101100110110010010110111011000000100000001111100
101111010010011100000100111101111110000100000110001000110011001
111100011000001100010001010001001101001010010000011111011101010
101000010011000011001010011000000000010001100010100010011010
111001010001010100101101011110010110011111000111010101001101
101101011111101000101000100010010101010001101000001100111111011
111000001001111110100111100110000101100110000001010011111110110
101111001101000001000111010101101001110111011110001000110011001
100011010100010100001000101110001110010110011100111110001111001
101000110011101000010100011000011000001000110111110000010101100
111001110101110110010001011100011001100111001100001110001111101
110001100111000010100110111010000110010011000010101010010110011
100001011001111011111101001000010111001011101010001101001000001
110100100101010100000101011010000110000101001101000010101011010110
111110101101010101010101010011010011100110101000111010110000
111110100111110011111100010111110010001111111011100011100101101
111011110100001000001001000100110100101011101100110110110011000
111100100101100110101001110101000101001100010010100001010101101
101111010000100111011000010011000100001001001010001010101011110011
100010100011001100010100011010100101100000001111000000100011
110110111000001000011001010101100101001110000011100000110011010
100001010110011010001111100010011101101100110000001001111010101
101010001101100101000111110001111100011001100011100000111110110
111100010100111011011110011101001010111010111111101101011011011
101001100111100111000001111010111111100110111111110101111100001
101110001001001101000111001011000011101000110111000010010011011

111101100100010110110010001010011010101110101011101010110100010
100001100000011011100101111100010011011010000111000000111
101001001100000110100000111000110111110000110001011110010000111
101011100000101010000110011011011110000111100111001100010100
110110001100111100110000011100010100000110011000110100000111011
100001100001000100011011100000111110111100110001010110111011110
0
100111100010100000111010101010110111000010101011110000
11000110101110010100011011010001010001010011110000011011011
110011000010011100010011101000111001101000011100110001010000111
101011111000000001010010001100110110010001101011010110000
101111101001010100101101001100010011010000111111010011000111
101101101001110001100011110101000110101011100000111110101100001
101100111100010101000101110010001000000001101111011111010011011
110111010010110100000100011110011100001100111100110001100001
101011111010100010110010001101110100010001111001000110100001110
100100000100100011010000110000111110100011100001101101010011001
111010001111101010110000101000011101111011010100110110010010000
110011101110011110000110110000010010001011011110001111000011
100011000010011101011011110110110111010011110011100101011010111
111011101100001100110110010000100110110111101110001000110010110
110111010100011101011110111100011010000010010100010000101001110
100101000001110001010101101010011010110010111001100011001100100
100110111001110010000101100000010010011010001101011110011100
111110010010011011000001000111101110111110100011100000110110101
110000000110011011110010010101110000011110110011110001000001010
110000000001110011100110110001100100000111010010110011000011
101100111111010011001110101101101100111100000011001001001011
111001000000011100011001001011101011001100011010001101100010
10100001100101000000100100110100000011011001110101110110010010
10001100110110100011001010100110010110011010000011001100011
1001011101100000111111111011000000111000011001000110110100101
110110000100010100110000011000111010101100011101010100101100100
111001101100001110000001111000010111011111000110010111110101
101000001001100000010110011000000101010001100111011101010001010
101000110100111011000011101100000001001010100010010011
11010100100101000011000001010011001100100000100100000010011
100011111011001100110110100100100110011101011001101101001100
101011000010111100010100110101110100101100111011101000101101110
101010101111001100001111110000111110111000010100110110001011
101000010001001000001000111001111101110100101101110010001111100
101100101110100011111000011110011011001110000011101100001110
100111101010111000110100000010001101010010010110001001001000
10101110100001001101001011011100110101010001001101101010111111
100100111011000110000000010100111000110011010011101011010111
101001001010111110101101110110001010110100110010010010001000
1011100100000110111001101111000000011100111011100001101
100100111011111000111101110010001101000001001110000100011101100
110000001000111101110001100111101110110000000001011001001100111
1011111000111010100001111100000010011001000100111001000110101

111001111011101010000001001110001010000101111011001110001101 0
11100111100000101001110010001001110111100111011110001011000001
11111010111101001110000010101110010000100100101110000011000001
11011001101011101111001001100100011001111100011001101101010001
10000101110011001010011010001011001111001000011001000100001 0 1
11100100111111110000010101010101101111001010001000010101010011011
10011110001001111101110011110000011100000010111100100111000 1110
100001101101000011000111100100011001000011000000100010011111 00
110110100111111010010011101000001110000111001000011101010001111
10110101100111110000110010110010011111000111010011011111110111000
01001111111011000011100000000011010001001001110100011010010 1100
111000011111011010011010100011011110011101111111010000 1111001000
1100011111000010100010011110100100111110100101110010011100010 01
10111110110100000100111000010101100101010000011100000011 1111111
1010111000111000000100110010111110110001010010110010110 00 111010
110011101100110100110010011111110100011111101110100001 1110100011
1010101100110100101101000011001101111101011101000010011 0100000
100100011001100101100101111011111100100110001010011 100111100 0011
10000011110100010100111000001110100101100100101010 11100000
1000010100100001010111000111000001100111100001111011 01111100110
111110000010110100001001111010010111111000001111100 01001001100
110111110100001000011000101011000000000101100111100 1011000101
101000010011110110101010110110000111110001100111100 1000110001001
10111010011011111100111010101110010110010101101111010 0111001011
100011111100000100111111011100110101101010001101000 110001
10011000000101110001000100011001011011111100100011110 01001000011
10100110011000000110101010100000010100111010010010 10 111110100011
11111011000111011011110010010111110001010111000010 111000000001
10100100000010100110011110001000110101010101111111 1001100001010 10
110011001110111010010110011110011000110111101100100010001 01001
101100100001111000000011100100110111110000010110001000 0101
10100111111010100001000001111000010111100111011011100100110111
10010110010111010000000110010010011001000010000010000011011 000
11010101110001110001101101001100110010000100011001100011011 10
11011010000110011000001100100010110001001011110010011010001 001
110100001000111011100100000000010100111011000101001101100 11110
10111101001011111110001111100001100111100100011000110000010001 1
1110011101111111010011010111001010100110110100001111111 101011
1111010001010101110011001101010000110110001001010111111111 101
11011011000011110100100011110011011110111100101100100011011 110
1011111000011111000001101101110000010010000100000111011 00
100000011110100101011010000101111010101001111000010000001 1110
11101000001000100100000111100001010011010111000101110000 1000111
11111101100100111011111010110111101001011111100011011110100000
10101011100000100110001110111101100101010110000011001001 11101
11011000101000011001010001011110000111011101100110011111 0010001
110001011110010010010011001110010101100110000000111001100 110110
11010000110101111101010101111011101100010101110000010011 10001111
10100010111011100100001100111100010010110110111001001101 00011100

```
11011000010000110110001110111100001001100111110110001010000001
11111000110011001000011100000111100111011001101111001001111
11010111011010010111111010001101011001000011111101000110111000
10101100111110110011101010101100110010110110111111110101100111
10101000110001010010001001110100001111101000111110010111010000110
11111110001011111111010101111111000011000100010111110100111101
10111011000100110101011100101101100001100100000111100110111011
11110110000011010011101010010101010010110101000100011110111000
11011101001101111001001110011000000110110001000111101111111111
11111000000101001011001011101110000010101100010101111101100010 0
10101110011011000110111111101001111111101101011111100110111111100
10111100100100101100101000010000010100110101101110100011111111
10010111010110110101010101101000000001101000001110000010101011000
10101011010111011011110000101000100111100010011000000011001110
11101011011101010111100101000110001001101100000010100110101011
10011111100110111011001111111001010111111001001111110011011111010
10010011100111110001010000011101011011001101000111100010011110 1
11000000110011010010011011011011010000000010110110001110001100
11100000111001001001011011010000111010010011111111111100111100010
11111101100110000110110001001000110111111000110111111000110111
11111110000011110110111000110100000001101010000000100100100100011
11101111011110111010100011011000100011111011001110111100111101001
11100001100001000000011001101111001111010111100001101111011110 10
11011011010111110011110010010000111010001100100110110001101011 0
10011111111111011000111100101100000100011111101011100101101100 01
11110001011111100111001101001110101011110101010000111001111000 0
10100010011101111011111111010101001111110011011010010011111110 0111 00
10101001101000101011101011100011010110110001011111101000111001 1
11010101100111011101101110100000001101000001101011001011101000 1
10010000100111110001001011010111111001100100110110011011000110 0
10111011011110111000001111001000000000110110000010110100001110 1
11011010010011011111001011110000001010011100100010000011001111
10001011010001000101000011010000010101001011010000111111010000
11000110101111010011100000000111010001101010000100110101011101
100010100001010111011111000111100010000010101011100100001010111 1
10100000100100011001001110001101100011001111110011011111011010 00
1001011011110010001111111010110111111111100101110011100000111 1
11001101101011011110000000011011110010110110011011011011001110 0111
10100101111101111111011000100101101100110001010111011000000100 0
1011011100111111101001001110000000110000011001100010110101000000
11111111110001001101100101011100100011110110111010101101000011 1
10111101100100110110000011001001110111101010101011011000101111 1
10100100010110001010011100111100111111010000101001110001010100 0
10110011111110001001111101011111011010110011101111110001110110000 0
101110011000101011000101111011000011110100001010001100000001110
1011000101001110000011110111111010111100000110000111110001101 1
1101010111100100110011000001011101111110001010011111100011000110
1101100100011011010010011001110100000111100001011110100001111110 1
10110010101110000110110001100011011010001110010001110010001111 1111
```

110100100010011010111010000011110100011000001101110000111101101
110110011001011110001100000100100111000110100011101110000011111
110111011010001111101110010001001000001011010100111110100000
100100110010001001011100011001100111110101011001101100000011111
110101001011011100100111101111100110110011111101110010011111010
110011110101100000110100101000000111111110110000001110000101111
101100111001100010010100011011111001010100011000100000111110000
101010011011001000011101010001110011100010010010100101110000111
100110010111111001011110111011101111101000111110011001000111011
101001101011011000011100111000100110000001101100000001101111001
110110010011011000000101011001000110111110000011000100000111000
110110001001010100010101111001110110010000111100010010001000000
101010100001111101001110011001000110111110101111110100000010
111101101000011010000111101101000100111010000110011110001010
100101111011011100000011100101111101111101001110111011110101010
111101010001011011001010100111110011011100111001101100011111101
100011001011100011001110110011110100011101111100000011100100011
111100101011001001110111100010011110010010001110100010100011001
110011011101100011001000100101011100110011001111101100010010001
101010111110110011010111010011011001100011100110010111010001
101111001001010011011000110011011101100011111111011100101111111
111111101111100110100100111000100110100000000010100011101101001
110010001101101101100010010011011010011011011010110111101011
110011110110000111110101011110001000001110100101111000110111
101100001101000011001101001000001100010001010010101101101011011
101011111110001100101111000101000010000000111100001001011111
110010011011110100001011110001011100010100100011101011100100101
100010100001110111001001000101000101000110001010111011101010
110111000111110010011100001110010111000100100101110100101101000
100100101001110011010101011110100100011000000111001110100001
101100000001100000011001000100100010100001111011000101001011011
101111111011111101110010111011110001111111011000000000110010
100110111110001001011100010101100111111010000111111000111011100
100110011111110000100011010001000101100100111110000000001110
111100000011110001001111101001101100000110110001101101010111001
110011010000010110000011011100000100011001000110101110001
100110100000111110100101110010011111110000011110011111000110110
100011011101001111101001111101001100011110111001100011110010101
111010011111011100110101110111111111010010110100111000000010111
101110101110101001101000110111111001011011010101101110011101011
100011000001010111001111001100111111010011110000010110111110
101111000111100111101110100001100101101110010010100001110010
110100000011111101100010011011100100110010100111101110110010110
101100111110101101111000111101100110110111111100010000011000101
110110010001100000110011100010110000101000010100110001111101
101101011101101000111110010011010001110000011000001001101000010
100001110011100001010111011111101100010001010001011110010101
110000000111001001011110100001010110100101011110100100010100011
111110100100011110000001100110110001011110000011001011000000

100110010110010101110000110101101111100111100001011100111100
111000011110011111010011011110011010011101010011111001011111101
110101110000100100111110001101110000101110111100010100111111001
101101011011111101010110110111000101001011011001001001111111000
101111101001100010111001001100100111101000101011111100100110001
100010111011001111011111101110000111010111001110000000111010111
100101111010110011010010110101011110011001101101111101010000111
111001101010110000011001010000010000111100010101011000000100000
110111010100101110010000111010000101001101110001111000101100010
111101000101111001011111001110101011000100111001110011000110111
110110101101100010011111100010101100011111001000110011101101011
100101011010000011010100111100001011111110110100100010100010101001
111010000111100000000001100100010011000000110111100100011111011
100011001100100001111000111111000100011101000011111000010010011
110110101110000110110111100000100110001100010110011101010100011
111101011100000001110010001010110010010111111101001111101010
111000101001100001010010000101101100110000111010001010111001011
110001001101000101111101010101011000000011100000101101001111111
111100111010111110100110001011011111100100011010000111001010000
111111100110000111101001011000010110111101101010110111001110
111100000001110111011010111001000010101101100101101011100011000
100110110111101010100001110001000101101110100011011111110000111011
111001100011100100010110101111100101101101100001011010010000111
111011000001101000111110011011110100001100111100101010010101101011
100011010110110001110101111010110111100011011110100011011100
10000000001001100110001011010000110110110100001111111100110
110000001111110101101101101001101011101111101010100000011010
111011001001001111000101000001000000110111011000010110011111011
100101110110001001110101011001001011111001001110011110000101011
101100000111010001010110110110110001111011111000110100110110010
100001100100011100111000000111011011011010101110100100001111110
101010111110100011000111101000011010110110101000111100000011011
110110001100111110001111001011001000110011111000010110011000010
11101100001100000110101110011111111000110111100001100000001111
101110111000000000001010011110010011111100100111110001001111101
110110000011100000011111011010001100011100101110001100001000100010
110100011000111100000100011000000100011001011000101000100011111
110000011001101110010001110111111111011100101001100100011110010101
1110110001111111010111100111011110001000101010010010111010
100011000011010101111110001010011000111001110100011100000101
1011101001010111101011100100000101110010000100100101000011111000
100001000000100010011110000001101010110111010101111110100111
100000010011010001100001001110000010010010111001100000100110111010
10000101011101110111101101001001001011000111111000111010000111100001
1001110111100100011001100000100001100110000101101010111111101001
10100010001101100010001110001000100010011110111011010010110001
1101100111000101001101111000110000101000011101101001010101001111
100000011010000010110001010010001000000000001101101011000010
10010001111110001110001001110100111000011001100100000100000110000

110010101001110000100011010010001100100001010011001011100000100
101100110011001100101110101011011010001100011000101011100101100
11101111010000100100100100100011110100011101000011111101000011011
110000011111011100000110110000100011001011010111110011011100
111001011111010100001001001101111101010011001110100010011101111
110011001111101010101100010010100010000100111001100001001001
100101001001100100011011101010001100011100010001010001100000011
100000010011001110000011000000100111000010001000111011111010101
100110100010101110011011001010101000001011000110101010011001011
110100100100110010010000011011011110100100110110100010001111
110010010010111011110001101001110001101010111111100000011000
101000001011011110100000100101001000001000110110000000100111001
100000001010010101000110010110011110101011101110110110100001000
10011000010011011101110101011111001011000000000110111101100
111101011111011101010101100110010110000110100000010011011111011
110000110111000111101000010001101011000010100111011001111000010
100010100100111010000101011101000110100100011000001111101010000
110010111101111101011101000010000000011000101011000000100110100
110001111110010010110011111110111000110010000110110101001001010011
100111111000110001101000010011111011011110111011110000010100110
100100101101000000100111010101110101011110001100111100100011010101
101111111010100001010011100100011000111101000100011011101101010
10100011010111011010010110110111110000000100010111000000111111
10110100011101111001011000100111100001110111001111101101111110000
11111000001001100011000000110001001001000100100111100110011001010
100000010100101100000010101101101110100011001101000011111
10110011110001000101010111011100001110000100010001100010011001101
100001001010101100010100100000100011001010001010101001100001010001
11111000101111100010111101111001011100100100110100011011011011011
110001100011100001010001110001001001001110010100001001100010
110010011110111001101000011000000111000100011001110000101000100
111000111000001010011011001111011001111001101111101001011010100110
110011100010011001100110101101101011011100101110010101010100001
100000100101101000100110110100110010010010100101110000010010100
111110100111000110101100100011011010001110101110111000000100001011
101110110010000000101111010111110101100111101011110111011001001001
110110100001001101010001100111011001111101000101111000010001001
110010111011001011010001101001100100000011001110000110110001100
100001111100111101001101100011010100011011011011001000110010010001
101101100111000111011111010000111100011001010110101111100000101011
111001110010001110011100011011100100001110110000010110111111100111
110000101000001000110011000001101011111001100101101011001111001
100101101111101011111110000101111010011101100001001011111110000
10101001001100100110100010010110110000110100011001111000010011001
100001011001110001011111001001010011100010001101011010001110010
111001001010111000101000110100111001111101011110110110111000011011
101100111100100110111000111001101101100100010011011110010110011
10110100000011111001001011011111010001010011001001010101010101000110
110001101111100011001011101000110011010010111010001100111001101

100001110010100110101001011001011100111100010101000101010011010
100111010101111001101000010101101101011001100111011110111100011
110011010000101010101100001100110111110101011000011110101100110
110010010010011000010101000101010001011001000111010110000100100
101101100110010100101111100101100000100111011110001100111000111
101101100010100010110000110001011111011001010010000101001100100
101001110111110101010010011010001100100110110100000000011000101
101000011010110101100101110110010000110001101100010110000001101
110010110010111000010010000111010000110100000101011001001001110
1001010010110011100011110110011010010000010010111101100010000
101111011010010101111000010011000111000001101111011000011100010
101010011110000011001111010011110110111101011001000010111011010
100010000101010110011001000110010001101111010111101000011011011000
100100101100111000011110000101000000101100010100100001011100000
110011001100111101011111110101100100101001100100011001000111
111011001101110011100000101011111000010100000101000110011010100
111011010011101011111110010011100000000010011111100011100011010
111000011011010000110101100100000010110010000011111010001110110
110111010110100110111100000001010111001011001100110011001010010
111111110111001100000110100110000000001000110100001101000110111101
1010010000100011001111000101000110110010110101011000110100000100
110101011010000100100111011011110011011100100100000100011010100010
111101101001000101111011010110101011001011010111100011000000110
1000101000000111101111011010010001011001011000110101101100010100
111101111101101001100110000101100100001000111101111011011001100
1010001110100101100000000100100100110101100100100010001101000101
101110010110010101100111000011101101000001111000111000000000101
110100101001010010101001000001100010000011111001111011010000011
1000100110011101001111010010010101010101011101100011001001001110101010
111110000111110010010001100110011110110001010011111100111001011
100110001100100011010101110111111010001111011010000110110000010
1000101000001011010111001110011101101000001101111010011011111
111101100010110001101001101111000011011111010110110011001110
1010111011000110000011100101111000011110011010001011111010001010
1010101010000010000101000000001101100000110110100101011000100100
111010100001010111001110100001101000011110111000101001001110111
101111010011011001100101111010001101110100110110001101011011010
11011111001001010011010011100010111111010010100001000110011001101010
1001001110000000101110110110110011001111100010101011110110001010
111100111000110000010110100010011000101001111111101001000000
100011011000000101111000011011100000101001010000011001101111
101101111000011110111001100110011101110111011111010011100000100
111010010001000000001010010001000010000110111100000001100011110
101000111010010011001100010100111111110001110101100100011001010
1110001100110110101100010001110110010011010011101111110000111101
111100001100110100111111000011000001100100111111010000011010110110
111110110010011101011001000100000001000111101110110011110100000100
10010011001111011000011110100101000110000000110010100000110011000
1011101100110101111110000101111011110100100100000101011111011000000

100101010011100100011101011011001101001101100111110110010001101
1000001100100011011111110110110011011001100101100100000010000
1110000100001111001110110011011001001010111100101110000111010
1111101001000010111000011101111101101001101011110001110111110
1010010101100110000011100000101000000010010010001010111011000001
1001100100111100011000101101100010110100000101000011111111100000
1101100101100110011001101111111010001110010001110001110011001
1000110000010010110001011000000101010011001011001011011110101100
1010011110010001100001111100001101010110011000110011100010011
1101110100101101111010000010100110111111000110011001111001011
1110001011110011010101100001100110111110110100101010100100011001
10001111111100010100111010100101001011001111000010000101000010101010
10110011000001001000011000001001100100110000010101110110011
11011101100010011100001011110110100100000100110111101000110101101
1010000011111001110001001100110110010010010000101011101111100001
1110100011000010010001100010100001100110011001000010101101111001
1111100000010111000001000111000101011011101001100111110000110
11111100111111100111010011000000010101000001100101011011111001
1001000000101100010010010001111001000111111000011110011011111011
111101100110011100101000010101110011100001101000010011101100001
11111010100010111010010110101101111111000100110110110001000010
1011011001010001010001010011011111100000010011010001000010001010
11110000000111100001101011100110111110011001100001111001001000
1011100110100001111100001000011100010100110100010110000111101
1111011011000010001110110000011100000101011101010001101001101000
11001101100101000111111001010111100011011011101000011111000010
1011011001111111000101010000100101110100111100001001110010010001
100000010111001100000101010100001100001101101101111100100010101101
10111101000100100011001100011010000100101111111100001010011011
101101100100001001100110100010111011000010111100100000101010000
10110110010110100011010000101001110110110001011010000111000001100
1011011001111111110100011101110001100010011010011011011010010101
100010100111101011000010110011000010101110011110001111000000
111000001110100110010011111110010111101110011011110010000001110
1110000001000111011110110001111001111001111110011000110100
110001101111101101100011100101100110101111111101101111111011001
1011001100110001010010000101011001010000010100110011110011010000
101010111110011011111101111111111100111111111110110011111111111001
11100111001111110111111110111011001101110110101011111010101011111
10111111100000001001101110010100101111111001000111111111000111
1110111111011011110011100100000100001110111111101000011101111
1101110010111100001011100001011110101101010000101111111010100
11111100000011111100110110001101111111111111011111111110101011111
1101001101100111011110001010011010000111010001010000111111010000
11110000011111110000001011011000110100110110011010011101100
110011100000111011111001111111010000001101110001000011011010101101
11111100100111111100100110101100110011110100001100110010100101101
11110000010011010001111010001110110001110011011001010111110010101
1110000100110000001100111101011101011110010001111111111101001100

100111011011111101001111111101101101111000001011111101000111111
110000011010111111100110111100000111000000000011110101001001
101111111110011111111101101011111110110111101000110001011100101 1
101111001101110111110001000010111010110111111010111100110111 11
111110100101110100001001000101101111111110100001001010000110 0
111001001111000110011001100000111000100000000101011001111101100 0
111110000010100001101111110000101001000110011010101001111011 01
101110010001110110111101100011011111010101100110000101111100010
111111011111010011001000100010100110001101100010110010010
101101110101101000001111110100001001111111000111011011111100111
100010011111011000010011011011001101001110111110001101010000 00
110001110000011011010000011000100011110010001110011010001111001 1
100001001100011001000111011000000010011000101111100010000000111 1
100110100010011011011001000010100001010101110011011010100011110
101000110000000100110101100010100101010100100100000100100100 100 0
110010000011011000110011100100110101011000101001101011 1010
101000110000001101011101100101111011101111010011100101100110000 1
110111111111000000111100000001111101000000011011100101111000011
111001001011100100001111011100111011011101100011001001011011 00
100111100010011011101110101001110100010101001100100101110101101
101110000010001010000010101001111101001100000111010110011001100 1
110001010011011010010001000111101011001101101001000001111001010
100101100111001100011001101001000111000100110111011110010 1100
110011101000000011010111111101110011001001010011111110011 11011
101011010000101101011101101010110010100001010001110111011011001 1
100100011100100010001100110000011001100111110001100011011010 01
110010001110000101001010111010000111110010010100000001011111 01
110111010001100011100100010001110100011011111000110010100110010
100101110100100100010111010010001111000000001111010011011111 00
100111011101000001010110010000101110000111001110110000011000
111111000101100100100001010110111101000001111110001010110111 01
110011011110001001101001000010101001111110100110011111101100000
111011001011101010101100010010011101111011001100110111011111 100
111110100100110110110001111111100100011111101111100011111000100 10
100001101111001100110001010001011110111100011011001001101101000 1
110100011111010001110101110010000001011100110000110100101110 10
110111111000011001100001010010010110110101111011110110111 1000111
100101101101011110100001100100111100010010001111000000011 00
101111010000111110110101101000000100110010101011001110100100 01
111110000111110100101110010001000111100010011010101100100110 11
110110110101111010000100100000111100000110011111110110000110 1
101011110100110110011001010100010110100001001110000011011000 0
111111000101010101111100000111101000010111111100010000111001101110
100111100110000011001001101010010100111111011010101110100011100 0
110010010111011100001010011101110011100010010000111011000 01
111001000011101100011111101000010001111110110001010100111101 1
100100100010111010000100001100001010111110100010100001111100100
111111000110010011110100111110011011001001101100100100111111 010
111001101111001101110100001001100011000101101110100111111000010 0

101001011110010001011011010001000111111000110011110001010101100111
10101101111101011011010000000011101000110011110000110011
101111001111100111000010111001000101000101000000011111001001010
111011000111011110001010111000001000001111000100001111000100
11110110110111000000000111111100001011110010011011111100011
100001011101000100100110110001110000011000100100101100110010110
110110011011110001000101000110110000010101011111101101000101111
1101111010110111110011011111110001100100011001000000101010100101
10111110101011011001101101000111101000001100111000001110110
100110010100000011001010011111100100100011111000001110111110001
11010100010011100010100100000010010010101111000100000000011000
110010010101110000011001111011001011000001001010010110100001111
110100110100111100000001110000000101011000101011111100001001
100111010011100111100110101110010010111011001110101111110010011
11010000110010110100000010101110001101001000110010001110011101
101000011111010100010111100001100111011100011011110111110001
1001001101011101110110011011011011010001100111101011100101111000
10001011001000000110110110011111100110110011001101000000000101
10011011101000011111100100110110110101101010100001010101001101
1110000011011111011101001101110000011101000000011000111011011
11000000010011001101010010000110000110011110110011111000100101
1110110011110011001101011110010000011100010010100010000000011
1100001110111110011100111000011011001000101110000011001011101000
1011111000111100000000101110100011010101110111101001001010011
10111111001111001100110011010000001110110100110010011110011101
11100011011110111010001011000011000000110000000010100001110010
11100100000111110000111001110111111111110000001100000010000101
1101011100111110010001010010011001011001111111001001011110
110101101111110001001001001111111101000110100001100100100000001
1111110110011011100010110111100110101110011110011011111100100
1100100100010011001111000110110000111010011001011010000010111010
1001011000101001011100000001010101111111000100101101101001010
10010011011011001111111001000101011011000100000110111100110
10111000001111010000111100000111001101101011101110110111011000
10110011010101110001101110110000011001110110100001000001111001
1000100001010011001011000010100000011011000111011110000010010
1110100011100000001101101100101101111111100010011011101000001
11100011111010001101011110111011100001011111100010110001110011
100110110001101011111111000101100100110010010011100000111111010
11110100110111101001011000100000010000101011000100001110000111
1100100110000011000101001101100001011000110011100010001001110
1001000101110000101011001001110111110111111100110101110001011011
11011110000011010110111101001101001100100111010110010010011100011
11111110101110011111110001000101101100111110110101111110111000
10111100001010100000001001111010000110101111101010110011111101
110011110011101110010000000111100010111101110111111111000111
10101101111000010111111101000110000001111101110000111010000110010
111011100100111111101000101101110011100110011011011100011010101101
110110100111111110000100110011111101111011111100011111011101111100

110110000011100100111001101101001101111000101111101110000010
110001001011100000001010011011110010000001100000011100010111011
110101001000000011111011110001101100000011011010110100110001110
111111111010111110000001000001110110101101001100111100111101111
101111110000011011010100011101000111100110101100110000011100001
101011001110101011001100001110000011111011000101000110000110
101111011011010110001110010001111011010111011111001010010011110
100011001101110000111110101110001010010111100010101011000010101
101111100010110111000101101110110000011000111111011000111001100
110111011000101111001001111101101001101001101100101000110010011
100110010001000011000010101101011011000100101000100100010110110
100110110011010011010010111110010010011000001000101110110001
111100000111101110100001101000001101110101011001101000100010101
100111001001100001101010010011011011000000000100000000011010100
111010001110111010001111111101010000011110011001011100001101011
101111100000100001011101010110111111000111101110011101101000010
110111101011010111011010000011110100010111110000101110111011010
111000100111110110001111000110110110110001111100011111011110000
101001000111001000110001110001001101011001011001010011110001001
110000011011100001110000100011000101111010100110001000110000101001
111001000111001000111000111000111001000110000110001100100001010
111110011011101110111111100101111010010111111000110110110100
101001001100101100001110110011001101101101100111110000001111111111
100101100001000110101001010101011000011010011100110010100011101
110111101011000001001010000000001001110000110111100001011001
110100011000011011000010100111000001011011011100110110111111
101001001001101111000011100010011010000101011111111010001100110
100000101110010001001010001010010001010101010100010000000100111
101110011101101000100011111111000001001000011000001010110100001
101011110100010010000010010010111011101010010111011100010101110
100100101000100011001101111111011000100001010101011100000010001
100100111110001111110010111011010110100100100011001110111100101
110100100001011110110011011000000011000110011001111001100100111
100101100001001101100111100000000100101100001000010000000001100
101001110011101011110111100100100001101101100101100110000011111
101111110010111110010111101010000100011001100000101011100000010
111010000010100011101111010111111100000011001001111010011100
111101011001100000010001000111101110101001100110100000000111
10100110111010000110011010101010110100101100101001011011000100101
111000111001000110011100010000010010110101111011001111000110101
110110100110010010111110011000010011010001111101011101110011100
100100011001010101001000110111101100110011010110110001100011
100110111101111000001011001001100010011000001000101100000100011000
100000101001011001100010001010110110101101100110011111001101011010
111011101100110010001000010000010101001001010110000101000100011011
101010000010010011011111011001110111000110100001000111000010100011
100000100000101010001010110001101000100000011101111101110110111
111111100111010100111101100010100011100011010010111000101000101
111011010000011110111010101010101101010101110101101000000001001011

100001100000100101001111100001100000110010010111011001101010
110001110010001100101111001010001101011011110000010100000
1101000011101011000101001000111100000110000101000101101000110000
1111000101001100001111010000010010010000100110000000010011110
100000111011000101101001110011011111100010000110100010100100001
101100010001010101001100010001100111001101111000010110101011111
11100101101011101000101100010000011001111100001001111010010010
100000000001001001111110111101011111000101000110010010011111101
110010001001111011111111010001101010001101110000100010110101110
101001110101110000110000011100010000001000010100101000010101
11111010001111111000111100110111110100111100110011111110101111
1000000001011111111001001000010110001001011001110111111101001001
110000111000010100010100010111111000011000001110001110000000110
100001100010100010100100000011111000000100001001000011000
1101000111010000100100111000001001100001001100110010110101
111111000000110010010000010111010000110001110111001000101000
11110110111000111011100011011010010010111000110001001001100011
11011000001101000101001001010010101111100011101100111101001100
11000000110110100000101001110000000111100001010111110110011000111
10110010001010000110000011011010111110001000011000010101011111
110110001111110000100011001011100111100010010110011111101000001
110111101001110010001010010111000110000110101100010101011111000
1111000000010111000011010101001111101100101101011110011101000010
11001011010000001011001110100010111111000001000011110010001
101000000101000111000100100100011101001101010101110101101100010
10010101111000011100100011001111011110000110110011111101100101
11000100100101000001001100100100110001110101101000001011100110011
10011100111010001010001101111111010100110001010000111000001010000
1110110010110101011000000010001000110000010010101000000001001011
100110101110000100100101001011101111011001000011101000000100100
10111111101101110111000001011000001100000100000110001101011110
10100100001100110010110010000010110110110011001001010111000010
1001011010001010110101101000010110000110111110111011100010001110
11110000010111111100100011101101010011000010100001100001101111
11001100000010101111110110011011101011001100110000010011001
101010010110111011000011000110111011100001010101000011
1101000001001011110111000000101011001100111101101111010011101
101101000000100111111100100010111001111010000111000010100111010
10011010010010011000011111010111010000000001110100000011110010000
1000000100101011001000100110000001001100000011010101101011101
10011001100110011010000000010011001101000001010000000011101001111
1101110100000010011110000101101011110011011000010000100010010101
100100001001011010111000111100001101001100100010101011110000
1011011100101000110010011000001010001101010000101011010111100
110000010010100110011001110101001100000001011110110011101001000
10011100010011110010011100110110110101111010110110011001111001
1001000100101000110110001111010011111101110001010111011010100
11101000111001111000001010110000010110001010000101000101000100001
10011000000110101101110110110111000011111000001000100111011001101

101010111100110110011101011011110110101001011001101000010011100
111010010000001000010100111010111100101100001101010000110101001
101110000101000101011001001100101000001010101101110000010010100
101000111110110001100011001001010001101110000110110000001000
101101011001001110101110101000100100100100010100001010101001010
100111001101110100000001001000011101001110000100011000010000100
100001100001100000010011101000100010001000000001000101001011011010
100000110011110010110010110110100001110111010110000101111111
101111001100111011010010110001110100101011000000011011010001111
101010100001011100111101000101010110010110011001101101100010
100110000001001101000001000011011001001101110100010110110010
111111111101001100101101100111000000110000011100001010111001
101110101001111011010010001001001001110011101101100010011101
111110111100000011111000011101110110000111100001000001111011
111110101100010100111011100000010001000101010001101101101100100
100000000100001010011011011111001000110110101011000111010000111
110011100011110110010000111110100000101110100010101110110000100
110111011010111110111010010110011111010001011001111100101100010
101001110001000111101001110111010001101011010000101110000001001
111100110100101101101111010000110001100100100100001100000100110
100110010010110110011000010000011010010010010101100111011100
110000001000101001001011000010001100110011011001001011000000110
110100001111001110010000011110001010111010110001010000011111100
111111010010011110110011101001100010100111101110110011100001000
111101001100010100111001001100101101111001110000000111000001101
100101110010011101110100000100011000101001110011110011011101111
100100011010100001010011100000100100100011011100111000000010
111111110001100000100101001100011111000100001010110011000101111
110101110110100101011011001001001011011110100011110011000100010
111000110110011011111010011011011101000100011011100011001101001
110110010000110111011001101000100110101111010011111001001011110
100000000001010000001001001011000000000011001000101010
111010000011011011000010010110001010001111010000111100001101100
100110010010100110100010101000011101111101111100111000001000000
101111011001010111001110000101110100000011111001001110101110101
111101010111100100111010110110100110010000011111110010001110011
101101101001011001011110100010011101100111001011011001101110111000
100000101000011100000011101101000001100110011001101011111100
100011000100000110010010001110101101110100101010110011010111001
111100001101110111110100000111110001111111011110000111100000111
100101010100011001010010000001001010011001001100011110110010101
110011001011111100001111100000111001000001010001010000100100110
101110001100110111011000000000111001000001111000001000000110
101101111010101101100001100110010010100011000010101111001101100
101001001011011011111001011001111110100001111111011111101100100
100101011110100010011011010000111011110010110111001111010011101
110111110101111111100010011101111111100111100111011101111111100
101000001111000000011100011011001111110110110101100000011010000111
100100011100000111001100100001110000001010010001111010001101011

11110111110111011111100000001110000100111110000011101101
11101100000101111101010000111111101111100110000111000001111
11001110100001011111110011110111001111111010111001110010101
10100111000000001110100001100011001001010001110110010111010010
10000000100111011110110011100111000001011001000000010111110110
10001100010111101111110110100100111011001000111110100000111011000
10101001011011011010000001010110110100010000011001001111001110
10101110100000000100001010010110100100100011101000101111000101
11000101101011100110010000110010000111101100111011011011100111111
1000110010011100000101010111010001000110010001010011000110
1011001111101010001100100010101011011110010000011110110001010010011
10010010000001000001010010110100001101001101000001000100011001
11111110100001011010001000111010000110101110110111000001101011
101101100100110111010000101011000011000001001101011100001110
1111000101011011000111011011110000011001100110010111001111110111
111100100100100011011001010110100110100010001011101100011000001
1100000000000110011001101111010000100101100110011010010000010001
10011111110010011111100110111010001111111010011111101001011111
10011011010010000110000000011001001011111100010010001001111110000
10111010000111011011101101001100110110110110000100110111101101
111001001011110110001010101111101101100001101000101111111011011001
1100111101011011001000110001110010001010010001000101001100011000
10101111111001011111101001011111100110110000101111101100011111
11111011001101111110011000001111111000011111101110011111001101101
11001010001011010011011001000110010011001000111100110110001100
10100000111010001001011001000101101011101110010011101111100111
11100110010100101100100001011101100011011010111001000110011111
10111111101110011111111011011100010100101000011101000100000001
110000111000000010111011110000100111111100001001110111111111000
1110110000100111000010110111101101101100010001101110110100110001
11110110001001011000001000110000000001100000010110000001000011
11110111001111011111111001001101111010000100101100000000111101001
1101011010101111110101011111101001011111110011011010100101111100011
11101011101101001011101111110100100110111110110110011000101001111
10110000010111111001111000010001010001111011100100010010000110001
100110001100101100010110000000011011001000000011110110000111001
10110100110101000110011001010000111110101110001101101100100
11001000110111000111010010111100010011011011000001010100010011
100000111010001111101110011100011000000110101110101101100101111
11011011110100011101110111101110111000111001000100111000000011
1011000010010000110110100111110000101001011011000011111111110001
101001110010101011001101001111101001100010100000100001101111100111
10101001000000101101110110101111110000000010100100101101110001011
10001111100010011111000100001110001100111100100111000100110010101
111101100011010101000001100110110000100100100111001011111110010111
10100010011010000101101111000100011000000001001011101101101101
11011000101100011000101011111110010110011100101010001110010111
100101100110001110011110111110101001111110110000110011001001110
111011000001011100000101100000010100111010111110111011011011011111

101101000000100001100011010111011010001110000111011001101100110
110001010111011011000100111000001010110101011000110011001100000011
111010011111001101001100100111011110000010011111110100111000
101001001101100011111111000101110101010010010101111101100100110
111100000011010001101110000011011101111011101011011000111011101
110011101101111001001101110100010001111110110001000111100110110
101011011100111010100110100010101100000110010110110011101111110
110000011100101011000100010111011001010101011110100001010010000010
101101101010111011010010100101111100110110001000000110000010110
100111100010000011000101011001101100100100111110100010001000001
111101000011001010001010010011011111001110011010110111000110110
110100000011011010100011111011001110010000100100001101101001111
110001101111101001000010101110011000100010111101010001111111101010
101111101110111011110010001101111000001101001001101001110011101100
111100100011101011001101110011110001011110000010000010100001011
111111011010011001001110001001111010000010010011001100101100010
110100001010110010011000111000010110101000111111110110100100100101
110010111110010001100011001001101110011000100101111010110110111
1111100011011100000110101111010010000010000110111011010010001011
1111110010010010011101001010101100100110010000101100110100010101
111101110110001110000110110000111111111101010011100011000101
111101001100110000101011110000111100000001011111100100011011101
110111000000101111000111111110110100001111100001100111011011000011
110111110001100111101100111010000010001100110000001100001000111
11001111110000010000110110010101110001111101101001110110110011101
10010110010010011100111111000111010011011010100110011101100101
111100100011110101110100100001100001011010010001101101000000111
100001000010111111111010111101000001011101001010001010110110001
11000100110110011001000001101001011000100011001100110011010000001
100000011001001010111100101001100010111001110010010111111111110000
101010001110000011111000010111010110001001001111100010110010011
101000101000010010110001000100001101100100011111100010001110
11011001011001111011101011001111110101000111000011101101101100010
10001100000111101111011001011010010101110010001111101000010011
111000010010000001100001110100010110101111100011010010110010111
11011011001110100010001011011111111101000001011101100101100011
110001001100001110000010010101011111011010110010111100100011
111111110011010001000101010101111110010011110101111000100011
1100101001100011111111010101110111110110111110101011001111010
1111000010010110110001011001100000000011100011001100110111110010
10011110011010000111100010000011001110101001000010101001100100011
11001000110100001101001011011010111110000011001011001011111100111
11001011111111001010111111010111011000000111111010111111101
10000101111000100100111100001101011000010100011011010001100011
100011001101101101111011001101001110111011001100110000100011000
111111000100111110000000111000010101100001001110110000110101111
1010110011110010100010000001100001101001010101100100011110001100
1111110100101001100100010011111100100100100011000101000110111100
11100001011111101101011111001100110100000111101110011011101100000

100110000000011011010010101010100011110111010000101011000101111
100001010010110010101101011000001110101110101111110010111101000
101001100001101000101011001100010111001001010011110001101110
10111110110011000111001111110011001001001101010110001010010001
111000000011011010010101111111000111011110001010001110100010101011
100010100110101100100011100111010011011010101100111011010011
1011000110001010000100101110010111100011110001010101011001110
1111110100110001100001011110111110000110001110001010001110100111
100011110101101111001001001111000010010011111110000111100000001
111110110000110010000101111100001100011111111100011001100011111
111011000001110001100100111111101100010111100111100010001100100
10001110011000101000111010001111111000011011011010100001101000
11110111110100110010100011000100111100011100101010111011101
1101110001001111110010100010100001111011010101110110001010011111
100011011001000001101101010000100000110010010110011011011011010
110010110011111111110111010101001101100001100011111001100101110
11111100000010110110000111111010111010110010000111100000000101
1010010000110011001011011100010101101110111100100100000111111
11011100001110111000000100101110001010111000011110110011011111101
110011011000100000111001111101001100100110010001100100110100000
1111001110110111100010100110011010011110011100001010000101
11111010101001111001101011100001101101011000111100000001101
1110011011111000011010111000101001111101111001110000110110100111
11111101001010111011001011001011000001010001100100000011100000000
10111011100010011111011100111111111001010101111011010001111111001
10100111001111011011111000011101100111000010111011010110111111110
1010011001101111001110011111110100111001111000100001110111101
1100001110101101111000110111111010010111100000001001101101001111
101100101100100000111000000011101101010011001111100100110000000
100110001101001100111100111101101011011111100001110101111101100
1100000010111000000010111100001001101101100011101111010001000011
11100111111110100011001111011111100111001001101001011111100011010
10111001101000111110000001010000011111110010101011101000111001
11000001101001110100110101111101100110110110111010001011100111000
11001011110111100101011110111110101111110100001010111101100010
11111110011101010111001001011110000101011011001110100001001101110
111111000010011111000101101111101000111101110001011011011000010
100110111000110000001100110011001100000110011010111110000011010
110100001101100000101111000001110111000001011110000000000111100
11100110011000001100110010011001010011111011001111111000001011
11111100100011101101111110111100111011110110100011011110011111111
1111101110101110111111110000000011101110110000000011100001011010
101010000001001100101111001000000001010011111100001111100001111
100101111000010110101010111000010011110100010010011101000011100
1000100101001001011100100010101011110001100000100101001100111000
10011101100011111010001111000011001010011110100001001000000110
1000001100011010010010001000111010000010101110111100000010110
1101111011000100010010010111101111000000001000111000110100100000
101000100101000010110011101001101000011000001010001101101111100110011

101111110111101010000111101100011101100011100100000101000111000
100001010100011010010010111100000011001110001001001010100000010
101011010101000001000111111010111000000111001001000010100000000
100110111101100011011000111110010100011000111000010000100111101
101001011001001001010011000100010110001100001010010000111000010
110101011110001010100101100001110010111101001000110001000010000
100000000100111110010000010011001101001111001100010010111111
101000011001001111011010001011001000110011100010000011001111000
101000110100100100101011001000000100101001010000010110101111111
110010110101000111011001001101011011101100101000110101011110010
1
111100000011110101000110011001100111100011111101010001101010
101000010111110110110111001110101010110100101100101000000110001
1101000011010100011001100011001011100100011000000111100100110
0
111100100111100100111000011101000011011001000101000000100100
11
100011101110011011010000110000011110110001100010011100110110110
101000111111110011101110010101011110011101110110000101000100110
111000001111101000111001000111001111011001011111011110001111010
1
11001001100101000110111010011000010110101111001100001011000001
111110110100011001110000001001000100011001000111000011100110100
110110001001000111010110111101100101110011101011011001101
00
1000001000100101110101001000110111101100111010111100010101000
11
100010111110011001000000100100011000010010000001000100100001
00
100101110100000100010001100010100001010001001101001000110100011
1
111111000011001000011001011001000110010011011010010000010010101
0
100111000110010001010001100101110110100101100011010000100001
100011110010001000110001110000001010011011110000100101111010
11
101111111011100110111011011000100000101011010000100011110010011
100111110101101010010100011011110011110001101101000011000000010
0
111111101101011111101011011111011100000000000110010110111110
00
100001011110001010110001101000000101100100010011101111011110
100001001001001011001011111100100010001110000100011001101010000
101000110011000011111011010110010001111101100010100010111000
00
1111011101111011111100001110000111011100010101110111010000101
10
111110101111010110110011001111001101101010011111110111101001100110
100100100001011110110000011010000110100101011111011011010011
10
101100111000111011111010000110011100100010011110000010000100
00
100110110110010001100110101101101010011011100000110110001100
01
101100000101010101110011100011111000000101101101101000110111
100010010010011011111100111000110110101000110001101011011110001110
111110000010010011000001010100100101000101110001100010110110110
11101111010011001001010001101000010101010100010100000011010
00
101010100110011100001111011000010101011110000011010101001110
00
100011010111101111000001001000110100011100011010100011111000000
1
111110010111100011001111011010001101101100100000111101001000111
110001001110011100011100100010000010000111001100010110010010
11
110101111100111101110010110011101101101110011101110011110011100
0
10011000101110000101001100100001110011011001100111100000
10
1001010011100001011100000101001001110001011000011100011001101
0
11110001111000110000100110000000011101110001100100101000100000
01

10110000011011011101110000100001101000010111101110100011101010 01
11110100101101111000000010101101111001100010010001100000111010 01
11001110101100000111100111100111101011101010110101001001101011 01
10010010010010001100110010100001110011100100101000110010010110 0
11100011101111110101011001111010001001110000001100110011111 01
10101000011010010110000110100011000101110000011101101101111 01
11100111100001001110110001110110001010011001101000001110110 00
11000010101101110001101010000110101001101100111000111000000 11
10000011101000111110100111001010110000001111111100110011001110
11011011010100101110010010000011100001001110001100110010000 01
11001000001001100001011001000011111010000110101110100010111 01
11110100110000111100010101010011010100100100000110100111001000 11
10011110101111100000111000101000001101000010100011111101011101 00
11110010110000011101000011110000111101001000000010011001110010 0
10000010100110010011011100100011110101110010101111011101111001 10
10110110011001110011011111001011101000101101011101101011100111 01
10110101110001110111011001101100010100000101100010001001001101 0
10000101000110110100011101011001001001110000000101010001110100 0
10001001100100010101011011110100011100101110000101110110011010 0
10000010011010110000010001001101000011101011010001011010000011 10
11010110110101010010000000101011100111001111011100010110110 00
11101001101111101010101110100000111011001000110100101010010010 01
10100110101111001001011011110100110001000110100111000011001011 01
10001010000011100000110100111010001101100110110011111011011101 10
11100001110101001110101111010000011000111100010100101100000000 0
11101110100110011101000001010101011110110101010010000010011 11
11111100000010011110100101011000110010011111101001110000001110 0
10111011001000101000110100101110000001110101111110010000111110 1
1010100011010000000001000110011110111101000010100100111001011 1
10010010001000111010111001101100001101100001110111011110110110 1
11011010001100101111000010000101001111001000101000010101000010
11001001101101001101101111001010110001000001001101100001000111 00
11001000110011011011111100011111011011001001101101001101111 10
11000111000000010011000000111001111011000000100010111100001010 0
10100010001010001100110010001110111001001011011000001001110011 00
10110001110000111110101001011000100111001000000101100100111000 11
10001001110001001000011111100000100010100111011001110011110 01
101000010000100101011011110001001000110100011000000011
11001000100010010001001110101100100011100111110010011101 11
11010100010010011111011110110101010000110010010111011000001001
11100001000011001110001001111000101111111011001111011001101011
11101111101000110111010110010001011001101000110011010111010000 00
11011001100001110000011000000100100110110000111100000111001011 1
10110011011011010110111100000100111011101100000111100000001010
11101000001110001010000110110100110101111100101010011111001101 011
11101011101110100001001111010011011111100001010110100011101 1
10010110001110010000010000011100000101001001110111101101101 10
11101111000111010011001000001011110111011000101100011110100111
1110011110000110111010001110001000011011110100011101110010110011

110111110110011000011110000011001101110010001111000000011001100
110011001000100100011111000011100100011100000110000001001010100
111000101001110011101000011010000110010000011001110111011011100
101111000101110101110000101111010011001000001110111011111000101
100000000101010010111001000011011001001110111101100111010000100
111000110100000100000100010110100010011000001000010011101100111
111100101010011011111000010000010110111001011100010011101100
111111100110111101011011110110101011011110001001101010011001101 0
111101101011100100000100011100111110001101110100000011011010100
110000111110011011101000000001010010101101101110011100111000100
111110110000000111010010111101011001101011001101010101000100100 1
101011111011000101111101110011111100001010010110101110000011110
100100010011100011001011011110000110100111110011110010101010011 0
111110100010101100100011011101111001011111000110011110000001011
100010011100110011011111000110111001000000011010000011111 0000
101100010101010011111100101100010101110001010001001001011001 11
111101101111000110010100010111110001111111110001010111110001101
101101101001100100000100000100101001001101101101111001110101111
111001001011001100101111101110101000000001010000011110 00111
110111111010111100111101000011111101000011010101100000101 0111
100101110110110001001110000101100011100000101111100001000 0111100
100110000011000000101011100110011001000000101101100110100010010 0
100111001101101001111101011001100101001111100010110101001101110 1
110110001100101101100000101011000100011001111010010111100011100
100100110001110110001100111001000111001111010001011101100111011 0
111011100101101100111000010101111110010111111000111110010 0
100101001110101111001001111011110111111011100010000100101111000 0
110000010100001100001010010110101111111011001000001111111110111
100111111010000100101111101100010000111100001000001000000110011
110011011100011011001100100101111101101100000100001010101110110
110001110101011010001110000100111111101010001100101011000000101
111011101111011110010001011001000001000001101101100001011110010 0
101010011110111011111010010111100010101111000101111010001 1
101111011101111100100111000001010001000000100010111100111101110
101100101101111010010011011101000010001000000101111011011011000 1
111010001001010100010100111101011111110110111010110110000100001
110000010100011111010101111011001100100001110110110011101111100
101011111011001111101101101100001110010110000000010000101001011
110110010010011111111110100111111111010110111111001101101
100111110111010011100000000100001101111101010110001111001111
101101011001001011100001001000110000101011000100111101000010100
110000100100111101010101000000110000110100001101111001100111100
100110111101101111110101111111111110011011111110000011101000100 1
110010001111001001110011011100001111110001101111101001111111
110000110001100110011001101110101001001011011011111001001 00011
110011111010101001111101000001110000000001101011001100001 10011
110111111100010111100010001111101000111110000001000011101000011
100101011011111111100001100001010011001010011011001100011 10111
110100110110001010001111111000011001001000101100100010110010000 1

111100110000100010100100111110100011101111000110100111111110010
100000110001110000101001101110100101101111001100111100001100 01
111001101111011011110011001111110100111100100110110001000111111
110011111110100111100110111000101111111001011111111111101101111
110110101011100111010001001001011100010010111110100110100111111
111111111000111001101110010101110000011001111100000100100100101
110110010001001000111011010110101001111100011010001110100010 0
1100000111100110111111010001011110010000001100001111000110110 0
111000011011111111100101110111101100000010111100010000001101101
111001110101011110111110001111111110001111101010100110110111111
100110101100100001110001000110011110100101011110011100111 01001
100001100001101000100100110111100101111000011101011101111001 01
101000000011001010000011100010011011001111011000111110000101 1
1111001001011111101001111101000111100000110011101010110011010
110010000011011010000110111010010111010111010000010111010001 1
100000011011000101110101110001000111011001100010110100011 011 1
11100100011111000000111000010000010110101010001000010101111 1111
101101110001100100011111111000000011101100001011101111100100 0
110100111000010110000111011000100001011100111110110010000000110
100110110111011000101111111000100101100110100110001100011111100
100010001011010010010010011100000111010100000001001100010000010 0
111110001001110100010011010100100010000011000101100000010010101
100100000110001010110110101000001000011011001000110110110001 001
101010001010000101001010101111001111011000011001101100111000100
110111111011001100110000011100001101100001111110100100001011 0010
101100011011000101111101111111011011101111100001010001000110 0110
111011001110000111100000100000011011000111101101101 1010
110110011011100001011101101011100110010000011101101011001111
110101100110101100110000111001001011111100100010011111001111001
111111100010101111010101111011011001001011000000100000001 11 1
110000011111101000110111110010001100111101100000010011011000001
110110110001001111011001000001111101100111001111010000011100000
110001111011001000011101001101001101001011010111000101000100001
100000001110010001111000101100111100111101100100011110011 01000
111110111100010100010110000101011100010100010100110101011101001
100001110000010100011110100100100011111011100011101000011101101
111010110110101101110010001000000110100011111011001011111100100
100000100010101111111110000111011110001011010111101100011010 0110
110001101000111100111100101011011111110110001000001101111011011
100100100000001110110000011101000010011011001011110010011100 0
111111101100001101111000010101110110000111100000001101101 0
111001111000100110011111001111100111101101111001000100001 10 0
1110000100111100001100110000001011110010011110111001000000111000
111101011001100000011110111010000011111000101011100100101 11111
100010010111001010110111111111000110001000000110011010111000 1 1
101010111101000001111111000000011110010001111111111000010110
101001010001011001100110011111100111011111110101100111100111011 1
110001110101100011100000110000011011000000111010000010100100 10
110100001111110001001100000100000110100111010001100110010111001

1001101000100110111100010011001010010001001100000001101110
1101000010110000000100111110010011100011100010010011010111111100
1001011011001101111100001111101011100011101001011111000001000101
1011000011001000101011010000011110000011111000101110110101011110
1001111011110110010100101101100101101001001100110011000110011
1000111000101100100100110100011110000110001111100010110110010011
1111101100111000010110011110100110110100011101110100011000111111
1101011111100101011001000100001100100000111110101111001111011
1110100011000111100010111110101011000011000000010111000011111001
1000011110000101110011110000011000111010010111000001100100010
1000011111010100110110100101000011111101010100101110100000111111
1000010100111100101110100101100110111100111101101101101001011011
1111011010011001101111100010000011110101010000001101001010010
1110101110000011000101110010011111111010011000011011001011001
1000100001101100000111001001110100000010111101000111111111110110
1010111110011101011001011000100110010111110110001101010100110
1111000000011011010101011000001111111101011100111000111110
1100000001110000000111000001101011100010000011101001011111
111110010001001101110010110010011110001100111000011111011110110
1110001000100110100010100000010011010110100100111100101101010
1001011100101001011010010101000011100100111011010011111001
11101100011011001011101110110011000110101000010100111110111101000
1100101110011010000001010100001010101111110101111101101001111
11010100101101000000110000000011111110011100111000010010111
1110100101100001110110000001100000101100000011010111011011
1111011010110110010011101110011011001101000000110000001111
1110011110100000001011011010011110001011000110010001000110110
11111101011110110101110011111000111011101000001101100100111110
1010010100101110001011010011000011000100110011011001000110011000
1000001101101011110110000001111000111101111011000111110100100
1111010011001110000000111011011000000000110000010100110011110
100111000000011000111000101101011111110011100110011001011001000
11001100100011111001111000000101010110001100000011010110111010
1110010010110111001110010011100100110100011000100100110010000000
101110111000110000010101011101100011001011110010110001100100000
1010110101100111110101011000000011011011010001001101100010011
111110001000111111010101000011000101000011001100010001110011
101110101100111100110111100100101100001111100010111011101101011
1000101101110011101100001011110001111001110001101110010010111
1010001111001111010111111001111011001100110011100000011010001
100000011110100000001101000001110010111101000111011110101011
11110010110001111111100011001101000001100111000011011010101011
1111001110000110110101011011010111011111101110010111100000110111
1001110011100111011110000011011010111111100100101111111111010
1111101000111001110100011000011111101011100011000001011011
100010111111001111011010101100111100011101110101110011001111110
11111100010001110010000011100000000111010000011001111000110111
110111001101110001111011010111011100110110000010001000000110101
111011110100101101111011100111101101010010011001001011101

```
100110110101110111111000000110001011111101010101011011010001111
101100001001100110110111011001100110101100001011110110010000011
100011111010100110011110010111110101110010011101110101100110010
101000011100111010001101101101110001010011111101101001000111100
101011111101111000010011100000010111010000111010111010000001001
110111010111011110001010110100011010000001011110000111000111111
111011110011110010011000000111100000100111101000011110100011111
111110100011010000011101110011110111000101111000111110010110000
101100101011111100110111011000110100111011110101101101101111111
101001011110110111011011110111100101110111000111111101011101100
1111011011101101101111011001010101110110110010111001010101010
110011001001011001111011101110111011011011101110111011011011101
100011000000110001000110010100011010010011001100110000001001001
1010111100101000110010001000000001000001100000001001000110
1000010000001000110011001001010000000100001000000101111000100
1001000101110001101111000000010100100010000001001011001001
101000000001000100010010010000000100001000100010010001001011
10001000000010000001010001110100001001000001100100110010100100
11011011101101101110100010110111010011010001001010001100110010
1100101110110001011010101101111001010101001011110110101011101101
10110110101111111111101110011100111111011111001101101110111011
1011111111111100111100111110001111100101011111001010001100
111101110011110111001100111111011001110111001110111101110110101
111110111111010000110000101110111010001011000110011111110
111100110001100011011010100011101010011010111011101010011101100
1000011001010110101111001000000110011101011101101011010011101
10010101110000000011001111101011001101000101000100001111101100
1111000011101001001011011011101111100110010100110010100011001000
110010011000001010110100101010100101011011101101111110000101001010
111101011100100001010011101010001100110000011000001001101111010
11111110011011001100010101010010010000000000110000000011000110
111101001110101100011000110000000110000010101001111011011010110
11100000010101001000110100101010011010000100011001100111110100
101010000010010011010001110001001010101000010100000001000101000
100000011100100000001100010100011000101001100011000001000100001
1001000010000101000001100111111111100101000010001000010101000
10000100001011100001001101100101000010000111000100000000000010000
1001000100100100000001010010010101100110111110110000011100010
1000001110011011110101100110001111000010010101101011110001110
101001010100101110011000010011001110010110001111100011001111000
1001010111011110011000100011011000010000011110111000110001010
111101001101101011001110101001001000000000011100000101010000
1100001110011010101000000100000011000110000001101101110101111
1100010011010101111001000100101000111101000100100111100010001
101111000000110011001010111000001011111001011011100010001110
10101101111111101001111111011001111110100101100001011010101001
1110011111110011101011111000100100111011101111101101001000110
1101011010110110010100001001010100110111000001110001110001011111
101110000001101011011111010011101001000000100101001111111110010
```

100101011111010101111000001100110011011011100001100111011011110
100011011011110101111001010001100111000000011100000111100101011
110001101100011100110000001000010101000010001010001000001001011
110011011110101001100000100000001000101101010110001110010101011
110110000011000011100000101001010110000011011000110100111101
101110000011011111101111110011110110000001000010101110000101111
100010100001100111001011010110101010111010111001001000100100101
101010101001100011001001100001010010000111000011011100000011111
101001111001010011000000111100001011111011000011000011001100
110100000110110001110011100001010011100101101111110000100011
111001100011010110101111001110000011100000100100011001110111000
110011101110001010000010010111111101110000011111100101111
110011110011011110011000011000110110110110100110000011000101010
101011101011111101111001100101100110001001100011100110111110101
111100000010100001111100000111000100100101100000111110101000
111110100000000001110000110011110000010110000010010111100111111
100111011000000011011100111000011101000100101100111011101
111100001110011101001101101011001100000010100001101000010
110000000000011001100001101111000011010111010010110000100010110
101010011011101000010001100100011101000001011010001010100000011
111110110000010110001101110010110000010101101000001011001011000
111111000101100101010110111001111000001001001110001010101101001001
111010010101100011001100011110001010011011000001100110110110101010
100101101000110001011100010001011011010110011111110000110010111
110000010010110100110011001110011111010010010011111100101000111
111000000001111001010110110101111101011011111110100110110110101001
101111001111101000101011000001000111011011110000011110110110000
111010000111011011010101000100011001000100110001111110111101011
111001111111111100001111100001001011001001100011110110001111000
110101010101100001100110010100001100101011011101100111101001011
100010001001000111001000000100010010110101100111001000001000001
101010110000000001100110110011000110001111000011100101101101111
111010000100100100000100100010000000101000111100100110110100010
100110001010011000110010000000111000000011101000110000011
101001100100111011010000100101100111001111101110000111011011111
110111000010111011010101101110000011011010000110110000010010100
101110010000000001010100110100011000011101101011110010011000110
110110110010000110110100111011101011001010011001011101100011000
111111111010101000011101100110110100101010001101101011100011000
111100010101000001100110001011110110011110110011110111001101100
100000101000110001101000010001100000011101000111110001100000011
111011110100111000000010000001010111011101011011100010000001
110110111100011001100000101111101000101110100010000001001010101
111100100011100001110001100001101000111100011001101110111100100
100011110001011101101101110111111110011110011010000111111110101
101000100100101010100010011101010011100011110100010001011100010
111001001001010000001110000101111000010110110000001000010111110
110100011110001010100000110010110000001110010101110010100000101
100101110010111000000010011100100111110100100011100100001001100

111110010111101000101101100000111011010111010110010001100111 0
111000010011100001011111010001100001100111001010001110000110
100110110101011001001100110101010011010101000011101000111001110 11
110110111100100111001111000111111011010110111100100011111100 1011
10011100111010010000011001000000010010010110001010000001011
101110000101100111010010110111110000101101011011010100011 0000
100010010100111111000110011110000011110000011010100001110 0101
1011111010001001110100000100001011010001011101111001101110 10111
101110010010001111111010010100111000011000111001011011111010 111
1110000100111110011001011000000101100001110011101110000001 00001
1111110100101101101001001101110100011010101111101111101101 00000111
11100010110001011110110011000111001010011011110101110111111 1001
101101111111100000110110101100100011010101110101001111100010 11011
110100010000101001001011010010001110010101011001000101000101 1111
101111001100111001101100111001111010011000010000110001110001001
10111110001001110100001010011001011011110101100011000001100 11
1111010001000101100001000010000000010101011101000000011000 1101
111110011111010001110011110001011100010111001001000110011 110010
111001110000101111110001000111100100101101110000010100000 0000101
1001110110100110010000111000101000011000001010001011110000 1110
11010001100111000011010000101010111101101101110101110011000110 1100
1110101000100100110111001001001110001100111000000000111100001
10000100111011001100110000000101110001110000011100100100001 100
11100001111011001011011001111101010010110101110000011100010000
110011011110100110010100001001010000011110100010111110100001 111
100111101000100110011110100011011111000110100011110011000001 1000
111111001111110000101111111000101111110011101111010011101001 11
1000111101111011001101110011110111001111111100111101110011 11
110000111110010111100001101001100110011100110011110110010 0011
1011010101001110000111101110100110000010010010110100101111 11010
101100111101100000100001010100110000111111000011111000110110 111
111111101001100001000011011110100000011000111011000010100110 100
1011110000001110000111101000110111110101010011000000101111 0000
11101011101000100110110010000011100011110011101001011100100 110
1011111010000010110001101111011011100111101110010100110110 01011
100110011010100010001100110100111100000000101100100110000 111100
10111100111100110001101100000110110101011011110010001111000 10
1001010101111010011100111110101101000111010110111010000100 01
111010101001001001101100101101100101010100000010000110010010110
1011010111110101001010000010011001100101010100001011110011111
1111110011011110111111000001100110010001110001101110101101 0111
100001001010010111000010101100001101110111100001001111101 0010
11111010001011111110000001100111010001110111000011111101111 1110
11010111101100111111101011010001100100100001010101100101111 00111
110101110010101010011110110010010000010010010100111000010111
11011001111001001111110000111100001100100110101010100110110 01001
10111100000010111110001110011000110011100010110010001111000 11111
11011101000010100110010000011100101111101000000111000110111 110
10100111000011011111110001111000011011011111111100110111111 100111

111101110111001011000100100111110011001010110100000111111111000
110001011001000010000000010110011110110111000110010111011011011
110101010100111001110100100101100001001111110010001001100100011
110010111011001110000110010001100001100011010110010001100101010
101111110110100111010101010001101101101111111110100001101110100
111010010111011000101101101100111001011100011100011100100011
110011101101001011001100011101111001110111010100111101001110011
100000011001001011011011011001110001100000010101001011101001011
111111010000111100001000101101111000110110111100010010111100100
110111111101000001111010001101110110100010100100000010101001100
111110001110100110110011001100100000100100000001011101101000010
111101101110000100111001100100110011000111110000110011000000000
101010110011000101100101101110110111101001111101011011111101111000
101111111100010001101110100001110001111110110101100000010010010
110001101101101110010010010111101000100001111100010000100000001
101010111000111111110000111101100111110110011110101001111111
101100011001000111100101111110010101111110011001111111101000011
100011000011010001100110010010000111111110000110010100010010010
101111111001111000110101010101000001111111111110001111101000001
101011111101111111101110111101110010001111111111010011111110011
111111111101100111111101000111111111101010100100100110100001011
101110010000110111101101010101100100101000010111110000111101
111101001110011010001100010001110010110100000000010010100111101
110000110110110111001111000000011100100001110000001110111111
111101010011111111010101111111100101100000100110011110001110011
100001100110111000001111100010010110010011111000011111101011
110010110011100111000100100011110111010011010000000001001100010
101000011010011000110110101000111010001000011111111101010111110
101100111100100111101010100111100000011001111010000111001101110
111001110111110011101111110101011111100001111101001111101100111
111000010101110001001011001100000111101001011111011010111110000
110000000010001101111001010101010110011111111110101100101101110
110000011110000000010011110100101100110010101000010011001000
110100101100100100101110000000111000001111100010001110100000000
100000111100011011100011001110101111100010100011011001001010110
110111100000010111100000111111000010110111010110010000001001
111111011001011001001101001001001111011010001110111011110101111
110000011100111011000110101100101111000110011111110000010101101
110101001111100000011101100100110100011101000010010111100001001
111011100011100010101101010101010110111101001011000001000000100
110101101000100010101001100011010101010011110111011111101101111
111110111010011110100010011000001011101100000101001111101011111
100110111101001010100101010100011000100110010001111101000110001
111110010000001011110100001111011100100111100100110000111
110011101011000000111101110100111000000110111100100100010111
110101111110101000001011101001000110000001111101110111000000110
111110000111101110100000001110000011100111100000110001100001101
101010100101011101010101011101101001110011101111001111010010110
101010111100111001111010011101001111000001000011111000010100110

111111000001110111000010001001000101010011010110111111000110000110
100101010100111110001111101100110100011100001000011100000101110
111110011100100100111101011111111001011010011110010010110111011
111010011110011001111101101101101011011011101101101110101011100
111101000111110011000000011000110110001100000011011111111010
100110101000111010010100101110100001111011111011010101110000011101
110010110100111110000111111011100111110000010001100000111111111
110111000001111000110000001110000001010010010011110111111100111
100110010000011010101001000010001001011111101110110001110001011
110001110111100011110100110000111110000010111110100111101111000
111010011011010011100111101001001101111100011100111110000010110
101111111010011110101111110000111101000001000101000010101010011111
100101101111011010000110101001101011000011110110010111101110100011
100001110000011001101001000101111011010101011111111000111101011
10111010001011110100100100001110010111101000100001100100
10110111111010101100000110101000111110001111001100000100010110011
1001100101100000101100100000111000010110100010101111111110000011
1100010010100010011110010010010110111110100001011110100101101
111111111101110101111000010010011001011111100101011001110010111
1011101111110111111111011100001100101011111000001111100001
111110000111110001100100100111010010110111001111110110100101100111
11111010000111010000100100110000111100000001110000001110000010001
110110000110011100011001111101100110110000000011100011010001111
111100110001011101000011110111010000011100001111111110100100111
10110110011100001101110000011001110100011100110100001100110101111
111010011111000000111100010110111001110011001101000010110110111
1010100101000000011101101100111110000001011010001111110000111
1101001101011100110110111110011011001101100111011000001101110011
11010011011110111111000011011010000001101001101111011111000011
110101111011100111001110000111111000001110111001000111000001011
100110111010001101111011011111101111111101000111111101111011001
11111010111101110111000100001001011011111011110011110010110111111
1000011111001011000110110010010111000110000000111110001111011100
100001111101001001000111100001011100000011100001101111110000
111100000011111011010111001000110010110110001110111000000011
10101101110010101001100010000100101111000111011011011111101101111
10110101010101100000100100111100000111001110010101101101010101
110111110101011000011000001101111110001111101010001100011000011
1101101110111110110000110110000110111010101001111111101000000001
11111001110110100000100101110001101011000111010100111110100101
110101100101001001000001110001101101101011001000011101000110111
100110111100000111111101101011011111011001011001011011111011001
10111111100000101111000001111011101011111101011110011110100111111
100011011011111110010110110010010011011010110111111011011011011
111110000101111111000001111110011110100011000000001111110111111011
1110011001110010000011101110001010101100001101101100011110101001
101111101101001111111010110111111100100100110000011010000011111
1011001111011110111100111101110101110001111110001101111010010011
101101100111111000110111100111011001110001101100010011110101

101000011100001101111111011011010111001100011110000110101111010
111100011111011100010101111010011001101110100001101101001111101
111010100100111100101100110001110110011011011000011110111010010101
101101110110110110111101101110111111001111001111110111010111100
101011000100011011100001111001111010101100011000001100001101110
111010111011010010011110010000011101101101101011101110000011001
100101011000110000111000110111011000110001111101010011010100011101
100010011010100110100011011111000011101000101011000100111010111010
100010011001110010010101010110000001100010001100111000001100
100110001001101001111111010111110001101101010110001101110110011001
110111011111111101101011010011100010010011010011000110011010
111101001000011011001010110011000111010111001001010001000110010
100010110011011100001101111110101111011100101111100011011101001
101111111100101101010011000010111010111000110010010010011101001111
100000000011110000001010111101000011001100100101100111110100010
100000101100011000011101000011100000111001110100011000110110011
111011111101110011001111101101011110111001101111110011011111111
110111110000111000010111000011101101000110111111000110011110000
111000110111110001101100011100000110001100011001101111101101110
11111001110100011000011011000111100001010100111110011100111
111001110111111011111011111100111100101111101011011111001110111
111101111110011111101000111011001000001110100011001100000
111110111111011111011100111000110101011000000110011000010101110
100010111101110100001011101001101110010010010011011111000111101
111100001110101110010000011111100101001010101000011111010101001110
110010011111000110111010111001111010100111001001000111110001111
111010000111110010001110110001010110001111101011101011101101100110
110011110010001011101011011101100011001001100010001101110010101
111011000100101111010001010011000100101101011110001110000010110
110111100101101111011111000010111000011011101000111001111001
110001101100011111010100001110000110011000001111101011101111001111
101101011011111100101011100101101100001110000101011000110100101
111010100111111011000111000001110010001110011110110111000110111
101100011111011011110000000111101010001111101100111111101100111
111111011100110110010001010011001001010110001111101110010
101111000110111011111001100101000011010001001011001101110011001110
100011011000101000011001000100100110010110101110010000001001001
100110100011001101100110100111011111101011110001101111101101100
110001101000101000011100000000100011001001001111001
111011110000110011000000110010101001000001100000011000011101
111000001101101001011100000101110100011001010110000000011101
110011100100010001100011101110011001010111001100010110110111111
110000111010101011011110001101110001001000000010001101100110
100010110101001011011100100000001000011100011001000000101100010
101111101101000000000110010010001000111000111110010101110010111
110010110000010000100100011001101110001000000111110
100011100111010100011100100000110000100101101101011110101111010
110101000100010101100001100100010000110010010100101001100001110
101001010100111000110101001110011100110111001001001101100100111

11100101001110111000010110010001101001001101000001011011101
11000110000110100001000101011110110011110110001100011100111101
11000100001100110011000100100001000100100110011011000101010100
11001000001001000100110000111011010000110110100010110011001011
10101001010101100110101110111010111101101000011000101010000111
10011011010101100110110011111011010011001000111100101100110100
11
10101010010101111000011100000111111010100001101111011101000
11
11001110101100110101110011100111000000010000011100000111111
1101101011101100011011011001001110000111011110000000011100000
1
1100010110010000011000111000000010010010111000001101000010010
0
10100011000000100101101011011001001011011011100011010110101100
0
11000000100010011000001001011000101110000111010101000011001111
11001100000010100111000000011010100111001101011100000010111100
10011011000101110000101010101011001100100011000001000111000100
1
11101110100010001100000110011110101101011111010110111100110100
1110
11110110011110110011110101110010100110100110000010011111101000
1
10100111001001011001100111100111100101010101110011110000110010
01
1011010000111110001111110100000001100111001001110011000110111
00
1110101010010101001100000000000101110110111101000100101010
1
1101100001000010010110100101100101110000100101101111010111010
01
1000111100011111011000001001101111101011011110101001100110010
100
10010010001110010010100011011110001000111100101101001010111
00
110000001111000011100001011011010010101110100110001100000001
1
10010011110000010001100100101111111001110001011100011000
11
11000000011001010111111010110010110000001011110011101101111
1111
11100011001111000011101011111101000000111000000010000110101010
1
11010111100010100010001001001001011100000011000110010001100
00
11101111111001001100111011101000000001110000100100001110011
110000110000001001010100111000000010000101000010001111010101
01
11001111110011010001101111100011011100000011011010010111111
0110
11100011100100111000011110111011011111110011011100111011100
11101
11001010100011110100001100000001100000101100000011111011110
01
10110111011110000001011100101000000011001010000111110000001101
110101001010100010010111010111000111101110100011000000111100001
0
111001011010101100101010100001011110000111111000101010010011
10
11111000001010000001100010010100101001000010000100101110010000
0
1101101010011111010111110110101110101110000111001111101101110
101
11101111111000011100100000110101101101111111010011011101001110
1
110010110011011010110001100101001110000111011000110000110010
000
10011011111110101011110110101100001001010101111101110000010010
10011000011100110011000001101110000110011110000001000000111100
10010000101111011011000001010101101111010000011101101001011011
01
110011110110111000110101110001101011010111110101101111110110011
11100100000101110011100100110110110100111110111001010101001110
00
11000110001111101001100001100011000111101110100110100000101
0
111011010111010100011100011111101010010010111011110000101101110
11
111000011001100001101110011100010001101111011010010110000010
1
111000111000111111100100111000000010100010010100000100111100
00
10111011111101000011011010111100011011110110101111111111110101
10

110000000011100110101110000001011001001011000100110010011100
110001111011000111111111011111111000100111000100101110010010101
111000110010101001100001010010000110111011011001001010100001110
110111100101101100100110101110101001011001111100101101001010111
110111100011001101010100100111100000110011101100101100111110110
111101111101001000111000100100111001100100011011100000101110
110001110011001011110100101100110001110100011000110100110110100
101110011100011011111100111110111010111000011001000110000001000
111100100110101101000011111100111111110011111111001111001110001
110000010101001001100100111000110100010100001010101001110001100
101000000010000010111101111100111111010101110010101111001111111
110101001100100100000101000110011101101111110110111100100100001
110100100111010010101100000101010101011111011111010101011001001110
111111100011111101111001010001000110101011001110101010011001000
110101111000110011001100110100011000110011111011010011100110110
111100000010100011001111101000110000000111000100110100010011
110100001000110101011001000001000000000011011011001111100111
111110001000110011011110100010101011101001011001111001010010
110100100101000011001111000110111111100011000011001001110001101
111010011111001111111100010110111001110111111101101001101111111101
111100000100010000110011010110100001010110011001000010101010100
101101001010100101001101011110110000001111000101011101000101011
111000100000000011011110101110111111010101100110000001010100
100000111101110001100001110010010110001100110010010101101101011
110100010111000000001011001001111100111011110100001001001011100
110011001011011000010000001000111111010110011010000010101011011
110101011000000111101000100101001000111100010111110100110010010
100011111110000000100100001001001111000000010011111110110001100
101111101001001100111100111010101110000010110000110100011100
111010000010100100111001011100111001110110000001100101111110000
111101110101001110011101111000011000011001001100111100111000001
111011101010100011111010111110110011111011101010010111010011001
110101101011101001110101111010000011111001001011001001100000001
111111100001010111000001110000001100101100110010010011100110011
101111111110000100011011000010011001001100001100000110110000010
110000001101110000110110101110001101100110110110010010101011000
111100000101110001100111000111000000100111010000101011110000000
110011011011001011011101011101110011100100100000011001100101
101100110001010111010001101100000001011011010000110110010000001101
100100100000000010000000000000000000011011100111110011110010
111001011100000100110110100000001110110001010100010000010100010
111111110101011000110000011100101101111010110000000011101111001
111100100100001100000000101100011100000100011110110000011110100
111100011101101111011100000111110111001110100000100101011
111110100001111101110101011000010010011000111101000100111100111
110010011110100010000001100111110110001110101110101111101011011
110001100111010001101010011001001001111111110100110100100001
110110101101111111000010101111111010101011111101111010001001100
110100000001011110000011111110110001001001110100101111000011111010

```
1000111101111110011111110110011011111011000100111010001110000
110010000000001110100100001101000111001011110100100000010011
1100000011110110111101010100110010011011000001101011001110000 10
110110110001101111111011010110000101011001011001110100000000001
1101011100001100011000000001001001001000000000001011100111 0100
1001100110101111101000001001010110111010100000101010110001 10100
1001111100000111100001110100111010010010011001100101100111101110
1111110001101110011111010111001111100011011111100000011100 01101
1101111100001011011110001111011010000100110001100101100000 0
10001110101010101011001011110010001001100011001110011101111 01110
100101100111100000110101110011111011101100100001100101101011 0
1101000011111101001110011110100001100000111001111100001110111101
110000010011110000101011101100001111011100011101110110011110011
1000111101000001010001101001001111101010100101111000101111000101
1111110001000000111001001010100101110000101100010101010100011 11
11111100101110001100011000110100100100110011000110001001010 00
111110001010100111110100111110111011101101011100110100101110 0101
11100100001001011011101111010001101101000111101100111011001001 00
11110000100010000100111000000011100010000010001001000111100 0110
11010111101101111101001100011100011100011011100000111000 0110
1000110100010101011001100000010011010001110101111011001011 01111
1100110110001110100010011010011110111011011010001010101100 10
1110100110111000011010101101100010111110110010110101111101110 0
10101100111000110011000001110001110000011000001001111000011 000
1000110111111101011011111100110101111111000111110000111011100 0100
11111000001110000111101001111111000110111111100110111111000011
1000001101100111010010101110101000011010000110100101111111 00101
11010001111101111100110000000000100111111101001111110011011 0011
1001111010011001011000001001001100100111001101001100000000 1111
1111111000011100111111111111101011111111111100110111111110 00111000
1011111101100001010010110100010111111111011100111111111100 0
100110000010101110001001000110011011110101110111100 0011
10101110001111110110110011010111110100001101101111100110 111
1101110111101000010011001101110100101011101111101100000001101101
110101111111111101011111111100011011111111110010101101010 1011001
10001101101010100101111010001100111101010101010110110111 0000111
10001110111100100000100111111101101011100010001000110110011
1000001100100110011010011000001011111011100011011111010000011
101101111110000111100110111101110001111100011001011011000 0111
110010010111001101110110111111101010100111101101111111001 11011111
101100110100011110001010100110111101101010000011100101100101100
100110010001110111011100011011100110111110011011110001100101111
1100101101010011001001101011110000011101101010110111101111 1101
1100000111011100001111000001011111010111111111000100101010
10010011110010010001100111011110101110001100101010100100 10111
1001000001100101101000100110101101111001111000100100101011 00111
1100111111110110010111111001111010110010110001100101001000010101
110101010101010101100110010011100111001000101010111010011110011
110110101111110000001011011001000001110000010111100001110011100
```

11010001011011101000010011001000110111101000001110000010010011
11011111101100011111011111001011011010001001011110010011011111
11011001101111100010010110010010011011111100001110011110
11101111011101101111110111101111000100100111101100011001011
11011001011101000011010010001101111101010010111110011000101110
11001001101111100100111101110010110011100111000010100000001110
11001000110110011111001001001011111000010111110001100001110110
10000000111110100111110001101000100110010011010001011110001001
10101110111011111100100100100110110110111101100111011100011111
11111111000110110111110101111011111100001000111001001001001111
11100000001111110110011010011100000110001101100110011111101
10010111011110001111001111011011100000010011001110001000111100
10000011111100100001111001111110010111101011101111001110011000111
11110111001011111001000010011000011011110100111100000111011
11000001100111101110101110000100111010001100011010001000110000
1000001101101110010001100101010001001011110110101111000010111011
11001101111010111001011011010110100001110011110011010101110101
10010010011011110111000011101111110111000011100000100011010011001
10001000000001011101111110101111011101101010101011110000001001111
11000000100000100100100001110100110110110011001000101110100110
10100101111011100011111011100111101011110001100001110000110101
10000111000010101010100100110001011111000011000110000010001100
1001000100100110010101111101100110110111101001101100100010010
10100101010011110011011111010011011001111101001111110110011110
11010110110011110001101101101000011100110100110101001001111
11010101100011000100001110001010010110000001111101101100011000
100100110111110001010101111110001111111010100011111010011011010110
100011110100010111111010101001011011001011100111110101011000101001
11100000100000000011101101111100100010111100011101011001011001
11101100110000000111111010101010111111001010010010111110110010
11101110100001100111001000101000100101000110001101111111101000
101100111010110001101011011110110000010101101110000011111011000
111100111101011000111111001001001111111000001101101010001111001011
11111001111011010110111110001011000011011011011000001111011010
10010001111110100011101011111000100001111100100010011111100000
11101100110011101100110110011011110100001111000111011011111
11000101100011000100111111110001101011101010101111010001011001
11000000011111000011110111001000100110001101101011110001110110
11011000011011011010111010100111000001110110001001100010011001110
11111011101111011101001101101001101011100000110000011011111101
11000000110100001110011011101110110000101010100001001010010010100
101110111011111110010111100010111111001101111111000001010100100
11111110010011110100000011100000000101110001101100111111100010011
1010001010110010111000000011111101001011110000101110110100011001
11100011110001110000011111000100100000110010011000111100000000
10111111110101001111100100001011101000010011110000100110110111
11111001010001100101101100111110000111000000111101101000000011011
10001011111010100010110010001111101110100001011011011011111010011
111110010110110101100110001110101110111101111100100011001111111

100011110111000111100000011001010010011010010001000100100010110
111010010000011101111110110101011110001101100111000011110011
110100101111001101111001100001101110101011001011011111001110
101111000001100111100011000100010011110111000101111001100110110
110000111110001001100111100000011001111000111110011100111010
111010111001110100110001001101010100100110101000111101001101100
100100001001100001010110101110001001100101010101011011001111100010
110110101101111110110001110000011001110000101011000001100101
111111101001110011011011111100011111011011111010000000011110000
101100111100001111111001101101001100011000010111100011011100000
111100000101100111100001110110111111000011101101111011011111010
110000101100110111101100110100101111100000101001111100001111001
111101101101010110111111010101011011110110010111100000101101001
101100111100101101011110011011011010010111101000101111001001
101111101001001110000001111101111001110001100111101010111111101
110110011011111100001110000000011000100101110001100111001110
100011110110011010010111101110000001011110011000110100001101
111111000011011110001100000001001011110111111111011110110001001111
101111011011000101111000101110001111101000010100111100100010
101111101101010101100101101110001100011011001001111100110011001
110000111000110001010111010010001110000001111101111100001111
100000010010101001001101101010100001000111001110001011011001011
111101001100111100001111011010111010111100110110011001111011001
101011000000101110111110100111010010110001010100011110100011011
111001111011100111101001011001100111001100101010100111000001
111010010011000110001011000110110011000001101100000010000111000
101011010110110101001011010011011101110110101000011110100011000110
110001111111010001111011101110111100010010100110001010111111111
111011110011100101101101010101100111100011110011011011100001101111
100001100101100010011110000011001001110001001110000111100000
111011000010110001011110010111011011101001111100000010111110
101111110011011100100010110000001111101101101101011111110111
110100110111111100010111000000001100000001111100000001011001
100110001001101101010011110000111111110001011111010011011100
111111010100011100100101000110001110110100011101111000011111000
100000011110010001011101100100110010100110010001001010111100110
111001011011001011000110000111000001001100100011000000111011110
101101011000000011000110101111000010110011110111101101010000
101100100111010110100100110001101100111010110001010001010001100
101100100101110110110100010111010011010000011001111100100101
110111001101111001101110011100000010111011100100011110001101
110110000110000010011000110110111111110111111001111010000011111
111110011100111101000111101111000110110011101111001101110010111100
110011000101000111100100011111100001111101010111111011111011010011
110111010011100110100100011100100111100110011011000101111010100
100101000111001010110011000000110101111010000000101001000000101
111110011111000011011100010001101011101101111001111110000000000111
100001000010101010111010000001101010111101000101111010100101001
100110110100000110001011000101001010011101110110001110011100100

111101110000110000110111100001101100000101100010101011101100101
101111000100110010101100100100000010100111101110111101111000101
111110001111111000111101100011110000110111010101011001011110010
101000110000100001101011100011111001101000000101001011011100001
110111101001011010100001000000001101100100101101010111000111000
000101111011000001100011000000110000100000011100101100000011000
110110000111001111110111000010011000101010011001101011101000000
110011111101110001111000001000110111001100100000000110011
110111011001101101000000100000111000010000111100101100001100010
100100110001101111001011001001100001100110001010100100110001001
101100010001101101100010011011001111000001000010101111000010
100111000010100011000110011000110100111001001110001111001001000
110110010011111010111101011010000110010111110111101011110011011
100001001011111010110100101010000000100010110001010011000111010
111110001100111111000110010111110100000100011011001010001100100
100111010110101000100011001100000000000010101010100110010100000
111110101110101110010000100010101010110100001100110110101111101
101111001010010001001010110101111001101111001010100110000010000
110000010011110101110101010001010001010100010000001110010101
110100010000111111001110011001010101110000111110011111000110110
110111100001110010111000011100001011101011100011000011111101100
110110011000101100000101010101111010010001010001101001001001010
110000100100001001010010000110010110011110011110000101100011
110011100111000111110011000011100110000110100010001000001010011
110011101010101101111000000100001000101111000110010110101111
101101001011011001001001100110111000000010010010100101010100100011
101001111101011100010000001000100000001100000001000111111
101000001100100111001100111011100100010101100110100111101011101
110001100000100000010100011111100110101010011111100011000000111100
111100001110001100000110100000111100001100000111110011110110110
111111000000111001000010111101110011111111001111101110011000101
111110110011111001100011001111101011111101010111100101010010101
111010110000110110011011010111001011000000010110110011110010
110001111110101100001010110010100010011001010101010110001111010
110110010110111000000011000011111101010101000010110100010111100
100111011010111110010001011001101100111011110011000000001011
111111110100011011110001000001110000110010011001100110110011111110
100010111100011001100100011000100101100100001110011110000010100
100001000111001111001100001101100110100000110010011011000101000
111111110000111001100011000110010001100001011100100001001001100
111111010010110001101011101111011001011100011100111111110100
111100010000100011010000010001000001101111011000101010001001011
100010011100011100110001000010011010101001100101110000010100
100000111011010100010100001100100010010101011101000000001100
111111101101000010110010100011110010100000010001010111100011000010
111000011000111110110000100001110010111101110011011000010010001
111101011110111011001110000001100001011001001011110000011110001
100100011111111000001001101000111010011011010110110100111100101
110010010001111111100011110111101100100010000010010010100010100

111000011001110010010111110100001011011111010011111000010010000010011101111010100010100010000011110001010000001001001011100
10001011010101011010110111010001101000000011110001010111110011101110011010010111110010011001000111101010001110111111011010101001110
1110100011000100100100111100000011010110010010111011110001001110110111100001100110000110000010010000001010110110101110110100001110010011110000111011101000011011000011111010101100101011001101100010100001110010000000110001100011011100101011011001111001011100010100000111001000000001100011000110111001010110110011110010011110111100000111011001110001001001101100110001001110000001011000001010001001111001001010101001101011000101000100010100100011011001100000101011010101100011100001011000110101110100011111100000100011101111000011111000001100000011100111101110011111110100011001111111111011000010111100010110010001100101100110101101110111101110100101111010111101000111011100011011011001010011011011100011001001110000011111001001101110000000110110011101111111001111000110000001111011010101000010100000010010010010110101111001111000100101101011100111111100111011100111111000000110010110010101011010111100010101001101101010001101010101111100111011100011010000010101011000000101000011111001100010000010110110110111100110011000011010111101111000101001110000001101100001111011001111110111110000001010010000110011111110000101010000001110001100011100001100100100110011001101001011100100100101111110111010101011001010111101000000110000111101000001000101001010100000001111010110011011100100101011001011010011101001010011000100100101110111101100011011001111011111010101110111100001010101110011101001101100010001010010010011010111000110111101110011110110011110101110001100001101111000101010111100001001000111111101000110111100011110011001001100110111101000100001001010110000110110010100110111110000101101110010101000000011010110101011111100001001111100010001011100000110111111101001111011111011011010001001011101010101011110101101011110100011111011011111111010010010001100101010101101000101101000011110001011111010001010000000101011100000010100101010101100100011001001010110111011110000110110110100100101100101010110011000100110101100111011110000110110100100101110010101011001100010011010110100110000110100001101000110100100000110111011000001000110001011010111001001011110001001011011010111100010000110010011011101001100100011110000001110000100010011110110101000111010010110000110001010000001010101100101001100110110111010011110100111001111010111100101011101100111110001101111000100101011011001111100010110010011110001000001010011110110111001110100010010101110110110000110101101110101111100011101100010100111010010010011111010011001000111111000011111110100110000101110111000011000001010111100111011011011111110100111101101011100111110100001111101001111101001110111110110110110000000100001111100100110111000001100101110011100000111001011000010010000010111110110101100111101000110110011101100000010110000000000010101100000101100100110001111010001010000001110000010111110000000011110001011110111100111010010101011101110100100011100101100010011110100100101011111011110100000011010111010011100011000000001110001011110100000101110010

110011011010010001100000100111101000100111101010110111100001101
111100010111000010101011001000111111010101011111000001101010000
111010001001000111110110100001111100010011001111001100111111010
110011111110100100011011110110000011010011011001000101011111
110101111011111101010010010000111000110101110001101100010110011
110011000110000010010011010001101101110101111011001100110110100
111001111111010100101010001001011001011000001110100000100111001
111001010011100011011011010101010100011001100101111111100110
100010111000000010000010010010110111111110111110101110000011000
100011110101111011111101000110100111000000101100001001011110111
101000001001010101001000111001000010111101001011111100111111
100110010011011110110100111010011100011011111100000011111010
111110101011101111000000100001000111001010010000100101100100011
110001001011000111110100110010011101001010011110010010101011011
110100101010101110011100111001000100100111001010011110100010
101100000010101111010000101011101001011010000010010110111111110
110110111010010110001101110110011011111011111111110111111111011100
100100110111111101100110110110010011011010011111110001110110100
101111011101000110110100110110010011111101011100111111000011110111
101110000101111010100000101101111000101001110001100010010000110
111100000111101101011001000010010110001011100001110100101110000
111000111110010111010010110110000010110010111100001111110000
100111111011000100100010101010000111110101111001111011000101110
111011000111000001110111010000111100011001101101110101101101011
100111100011011111001110011101111001100001111100000111100000000
111110001010010111011000011101000111000110011111011101011110000
111001101100111001101000001010111011001001010110110110110001
111000101011000001110001101110100011111100100110111111101101110
100001110110010011110100110001100001101000011110001001000011110
100100110110101101110110110111110101001111010111101000010111
100101100100101101011100100010010101001101111001011100001011
111111001001111101011111110100010000001001001000001011000100111
111101000111111111110011111110001011111100001111100001111100111
110111001010100001111101100110011011100110011110001011111001
111111000011100001010101111100011000111011001011101010110010110101
101100110001011100111011010110001011100110111110000100011110100
101000100001001010111111110001111100000010010111100011110111111
100111101110000011001000100000010010010010000001000001110100
110111110011110000111010001111101101100000100011101110001001100
100100101111000000111010010010010011000010011000110010001000
110000110110001001010001101011110111011001001011011100001101011010
111101101001110001101011000001100100001011101000110111011010010
111001001011100010010100011000001011110111101010101100100001000
111111110111111011111011111110000011111011011110111100111001100010
111110001111010011111111001101111111001101111111000011110111011
111111111111111101110000111110110101101100100011101101000001001
110010110101110111000011010011010000110011110100001100011101011
101111111111111100111111111111010101111111111010110000100100010101101
111110000011110000111101110111111001110111111100111011111100001111

11100101101011001001011011101010011010101010110101111101101011
10111011100100101100111100010000011010101010101111110000100001 10
11110000000011110100011110010000001010011100000100011011011 0001
1010101010011110111000100110010000000100111110001110011001 0001
1010111101111111000111011011111010010111111110010111111001 1100
1101100011000111100001110111101000001001000100110010111010 00
11011111111111000011101111111110101100111100000001111111010111101
1111111101110110010110101011111001001000111010011011101010011 1
11111001100111111110011011111111000011110010011110000111111 0001
1110000001101100110001101111100100011111100001111000011100110011
11111110010001001110010110110011110010011111111010000111100
11111100001010101000100110010100101001001010101001111001101 1010
1101100100100101011101111011000011011010110010100110110000 0
11110101110011110101101101011100110000000101011111100001011 11
101000111110000111110000111000011011110110101111110010001 11001
11101111000011001000010100100000101000101111000101001001000001
1001110000011110100111001101000111111011001000110011000010 01
11111101111100010111001001110000001101111110000101001111010 10
10001111101110100100101011100110111101101010000010100000000 000101
11011111011100111111100100110101010000001011110001001000000 11100
1001110111001000110001010010010100001011011001001010010001 00100
11100011011110101110111100010110011011010010101010111111101 1101
10011001100000110001001101100110010011010001100001111110000 1101
11011000110100111011110100011110101110000011100110010010110 0
11100100101000100000110111100011110000001010111000000011011 110
1111101001011011000110010001100010011100000111111011000111 1111
111001010101000100101001101111011011101000100101101011111000 1100
11110010110110100101001100100000101110001101101011011110000 01101
10011100011001111011010110001111001001000011111010100011000 00001
10010011100001111100001110110010010001110001100011011111010 0011
1001101000100100110001001000000101101100100010111011000001 011100
1110011100000011111011011100110010010111101110001110001101 0
10111111001101001111100010111111001111101110011111000001111 100
110000011001110101110110101111111001100101000010010011000010 010100
11000010111110111011110110100011011111100011101100110001001 10100
101110111010000011111100001001101110111001111110000110101 11
10111010001111111000001001110100010111011010011110000000011 100
10000000011101011011001011001001011011111101001010110010011 00111
1100001101100100101011101111100001010100100000010100101100 1101
101011101010100111110110001100010010110100110001001010011111 101
111010001010011110001111101110000000001100100110110111110100 01
11010010111011110110101100111111000000111110101011101111000 1000
11110000011001111000011011001101100111111111010000110001111 100101
11111000010111110000000101001111100100001011101000011110100 010
11010011011101111110010110011101100010111000000010011111110 0000
11011011010101011000001011100110110010110000110001101011110 10111
10110011000011011101100001111111100110110011101001001110100 1100
111110100001100101010000110111100010011000100100110110000001 010
11001111010101111110100101111111111101001111001001101100010 11

110000100111001001001111111001000111010001101110001101011011100
100010111110001111011010101011101011101000110000011010111111000
110010001001001001101100111000010001110111010111110111010010101111
111110010110110001011100000101011110001101111010000010011101
111011011010000100110010000101100011011110011101101110111011110000
100110110001101100110000011010110010111000110101101001101100
100000111010011001110100100011111011001010011111000100111100001
1010001110001010100111000001011000110000101111100001000011111
10011011111101000111000101111000101111000101110011111000111111110
11011110001101111011111110000111100000011101101001101011111101
10110010111010001100100100111100000000111111100000001111100
111100011010101100111001000001100011011010110011001011000001111
110111101101100011011111001101111100001110010010100101101000001
11101000010000111100001100110011010100001101111110010001111101011
111100011111100001101101111010111110010011000110101110000011000
110010011110000011011011101000111111100100100011011000100110011
110111010000101110001101100001111010010011001000100100011001110
10001100000010111000001101111110000110110100101000011000100
100000110100010010011100111010000111101001010101101000011011011
100001011011010111100010110011111110000100110011110001101100011
11010101001100011001000000010010001011111101011111011010111001111
100101011000000011000110010111000110000111101011011011010011
10111000001001101011000111110010010110101001110001111101110
100101100011110101111110111000011011011111001011110101011011111
10011000000011101111101100111111010111011110000101110110011000
11010011101011101111111011111100010010011101010110011111111010111
11100000000000111101000011100110110010101110000101010010111001
100110111110110111111101001101011000110111100111101101110000
110110100110101100100101101111101111110010111111110110101111000011
111100010111000001111111101001000000000110001011010011011101
1010110111110000110001100011001110101111011010101011110000011110
111110000011100100100111011100110000011011110101110000100110111
11100010001100101111001110110001111011001110011111100000011110010
1001010101111100011111100000101111110010000001001110100101011
110110100111100000010110000000011111010110001011111100010010011011
1011000000100110100110111110011110110110110100000101111010
1111010000101010110100100111010011011110100010110000000000011000
100001101100111100001101101111111101000001001100010100101101000
110111000011110110100011100100111100010001110101101101110110101
101001111101001111111011101101111101110001110100010001001001100
101101011110000110111000001101001000010011001100101100000011
1001001100000010101001110111101000000010011110011110010000001
11100101111010000101111011101101101011000100000010011010000110
1011101010111011011011111100101001111010010001110011001101111100
110011111100011000101010101010110000010111011011010000100000000
100011100111100101011111001101111011000010110011110011110110
100011000100110100011001110000111111101010000110100010001011111
110111010110001100001110001100110111100011011000011111000101011
100110101110010110001001111011010001111110000011111101010100011000

110101011001111010111110101110011110001000000100110111111011
110110100001011011110000111011100011011010101111101000011
101010110101101101000111110110111110010001101000010000011101000
110000111001101011101100011010011011100011111001001101011011111
110001111000010001101000100100011100101011001110111111101110101
111110101111011011101100001111111000101111010001010001111100
101010101010110110000011111001011100111011101000100101100100010
100100110010010101111111101110101100011000110001100110100110110010110
111101010110110011100101101100010011111101001001011110000011
111111010001111110011011111101010001111110010100111001001101111
111110000011100000111010000101111101010000010000100110011011111
111100001110001100011101111010000101100111100001110000000011
111011110111001110011100001110101110110101000110001100001110111011
111100011011100111000001001101100100000101100011110111101111111110
100111010100111011000111010000001100010111100010101011111000001
10110110110101111111010000110011010000000101000111110100111111
100001111000010010011100100110100011100001011001100001011010101
110110000100000110101100100111010111101000011000000000110000
110011010111101100100011110010100111100110100000110110100101100
100011101011100111100000100110110011001000110101100110111101
100011000110010000011001100111100000011100000100010000100100011
111100011011111001000111100100000001100100000110101111011001111
1001010100100100010100010001111110110011100111011111111011110101
110000110111000010000001100010011001100011110001110101010011000
110011111100110000011000100110101100101101010000100100101000010
100011100110110100000001001110110010000010110111000110111101
11100100110011010010101110001101001010010111000101001011011110
10111110111111010101000110110101010101000110100011011110101101
11100000100001100001010011010011011110110001100000011011011010
110011011111110111010101011100001111111101001100001000010100110
111100011000011001000110100000000100001111001111000010000010010
1000000010010100010000000110110011010101101110111001111010110011
111111110110001111000010010011001101001001001100010101001010001
111100101001111010111100101010101110111111111000001110000010011
110111011000000110100001000001100010010100100011101111001011001
111110101101101100101011001110111001010101011001100110011011
11101110101110101110000010001100011001101100011111110001111011000
11111000010100111000010010011011011111011110111110011000100001
101000111111111011110010100011010101010111101000001000110011110
1000110111110011000110000110000101100001001010011110010100
1000110010110110010100101101011110111101011000100001111000010001
11000001000010001100001111111011010100110000100000011011110010
10010100011100000100100011110001110101100011001100100000100100
100011011110001100111000111111010111011001100111001111010110001
101011100101100111101101010000111110111100010010010001
10110011110011100010001100110111011100001010000010000
101111100001000100110101110100000001010111101111101000100101010
110110110101110110011100110011000110111001110001000000000100101
1100110110001011110000001100001100001101000001000001010011011110

101000110001010010110010100000100101011110001101000010111011
110011000110001000100100111000101111000101110000101110000110100
101100000110101010010100011100011110000100111101100011010110100
101010001110001110001101111011010111011101011100100111001001011
110101101111010110000100110110001000010011100110001011011001101
110011011000100100110110010010111100111100001100110011100111110
100100001111001101111010010011100010010100111010001001010011101
111001111011000111001010010100110010111110100101001000010110000
100011110111111011001001010010110011011110100110100011000110001
100001010110110000100000100101100011110010101010011011101100011
111110010010000010001011000101000010111110010101011001100011000
100010001110011111001100110011011011000001101010000101000001111
110111010100001000111010001110110011010011000101001011010101011
111000010001111101000100101000010011000000000011100010011011
110011011011011010011011011011110100100110011100010111110000
111101110000110000100011100010100011000010011001010001100011
101001111101110100101100100100100111011011000110010101100011
111000001111101111111101000101100001100101100111100011100111
110000101111101100011000000110010000111000001110111000011101
111001110101110000110001001010100110000000111001100100101111
110000111000001101100111000010110010010001101110000010100101
101000011100111010100011000011111010110000110000010010010000011
101000011110011000110001010101110001101110100000100111100011001
110001111111001100000110001010101001101100111011111111000101010
110100011000101010111000010100000010100101110000010111010111010
100101000001111101011000111110000101111011001011011010110100010
111011001010000011100001110000001100011101010101011110000110000
100101101110000010101110100111000111101110001100100100000010010
111100111111101011010010000111000111111101111111010110001110000
101000100101100001110000111000111001010010010001101111100011110
111111101101011011011101110010010010010101111101011011110011100
100001111000011111010001001010101101000110011001011010110110000
101001110010010011011110000111100000011011111111000100111010
100111101101011011000000111000000110001100100101101110001010
100000010101100010111000001010111000111101101101111110001000
101111010010110010010001101110010011010001010001010011100111
110101010101011011110010111110101111110111101000111001001011010011
100100010111010001101011001100101000011001110100110110101110
111110000101100100110010110010101000011100000010111100001000
111101011011010011010111001001000101101100101010001010011101000
101100111011100111001010001011000110110110010000000011011010010
110111101000110011001001011111010110111111000010111110111
111000001110011110010100100011000111101101000111110111001110
101110000000011110001001111011101011010111111100001110101101
100011010010110000010101110111011001100000010100101110000111
100001101111011110011011001100011000000100100111101110111100101
101011110111001110101111010101001011001100001111001010100110111
100001011110100101111010010111001110000111100110111110101011110
101100100100101010111111100010110100111010010000101111010010111

110111010101010101011111011011001100101000100111001010111010001
110100110000101001111010001111011110100110111011001001011011101
101101011100000001111110001011011001000100011110101101111001
110101110111011010010100011011010111100011101110100001001000000
110110110000111010000010010000111001110000100100101000001111000
111110000010001100011110110000111110010001100011001001000011000
100111000010000001001011001110111000100011001100110010010101001
101101001011101101011011011101101110101110100011100000110001110
111101100001111100011011001101101100000100011111110011111111010
110111110001101101100100101101101111100001111101010101011111111
101011011111110100010011100001011101000001010111100011110000
111000011101010000110010010001110100001001101001110110000000100
100000010110001101110011111010001000111000011011000001110000011
110011110011100001001110000111011111100001101100011000011100101
101011101001110101110101101100000011001110001100110001001101101
111001111110010010001001010010011100000001110101010110001101011
110100000010000101100010010011000010101010101011011111111010
100100101101010000010011000010100000010101011000110000011110000
100100011000100101111000110010111010011011000110011110100110011
100100001101110000101111000001100011101010111101001101110111101
111000000111100010010010100001110000110111111000001111011000011
111101100011011011100000011100011111111111101100011000011000011
110001101001011001110011001001000100110110001000111001001011
110010010010101110000110011001101001100000010010101100111110100
100101100110110111011001110011000010100001010000010100101100110
100100110001101110111010000000111000000101001000100101011011
111001101011100111011010000011111101010100011001001011000100110
101011011111100110110100111001101110100010010110011110100001100
101101001111110001000111010000110111110010010110101011110011111
111101010001001110001001110001001110101011010001011110101111101
110011100111110110000010000010001001001100100101000111001011010
111000100100011101000001110001100100111010001010001110110011111
110101011010111100010011011000000110001101111011100111001011011
101111101001011011100111100001111101111110110011111111010011110
100101100100100101111001000110011000011001000011111010011101111
100100110001100100000111000001011000010000010100010001101111001
111001101010010010111010101110000010011000101111010110011000000
100111011010001001110111101111111000000011101000001001110110011
110111100101101001001010101111000000111000100110100010011001010
101001110100111111010000010000001100100000000111010010
111110001101001000000011100000010010001001001110000110100011001
100110101010111100110110101101111000100110001101001000111010010
111001011001011011011011101000111000101011000000000110010
111000001101111001010111110001111110111000101110100010110001100
101010101010011101011111101001001010101010100111110001000001011
101010101000111110100111100001011000011011000011001110110010101
100000001111101100100011110000010100111000001111011100000011100
101001111010000011111010111001111100001111101001111011011010110
110010000010110011011111111001111010011101001101100001011110000

101011001010001001001010100101110111111011110100111100011101
101100010010111100111110100001010111101101011110111000111000
100100010111101001010111010001100001011111100100111100100111001000
100100110100011011110011011110100011001110001001111000000111
100001101101111010010110111001110110101110101010110010110101010100
101111010000001111001001101011011101010101011101111000001100110
101110010010001100100011111011000111111010000011101001001101011
100000011111100000001110010001001000111111101100110101100100100
100011110000000011100001001010111000110110011111000110000010110
101100100111101101000001011110010010111010111001101101010010101010
111101100111001011101100111000001101000001010110011100011011010000
101010100111111101001001110100001101111000101111000001001011010
111101111101010001101111100110111101011011111011000110010010101
111011001011100111010011111101110010000111000011001110001010101
101111000100000100001001001111100011000011101010001111111011110
111110010111111100110001110100010111011111110110110110111011110111
111010010111010111010001111100001101101011111110100111111111
110101111001010101100010111010010000001001000110110101001011011011
101011010011100101101001111100000100111110100000011111100100110
100110001110000011100100011101100100001111100110111011001110010
111111110000111011110111111101101111000001111111011011000011010
111001011010111001111110001110110011111111111100111111111110010
100111000110010011011111100001101100110011101011000111011101100
111001000001101001110110001010011111010010001011001000100000111
111010101101011100111000011100000110111110101110010011110011
101111111001110111111011000010101101110000011010010010010011110000
100000110110011000101111110111001000011011110110011111111111110011
111110001100001110010000101111010111001111111010101010100110110
100110011101100100100110110011111001100001111101100111000011
110000011010011101001010111000000011110000101101110000011010000
101110010001101100101100000111000011010100011010111000001101010
101101111110011001101011110010011010000010101100000101000001
110001000011101100111111000000010011001111101001011001000010010
101111110001011101111000011011001111000110011110010110110
101011100101001110101001111011001110000000110110110011010011110
110000000100011010100100101101011110100010010010110101011000000
111101001100100110111111101111111011011011100000110111111101010
101111001101000001001010010111001110100111000011111100001001
111110010011010110011011010010010101110110010010111011101100000
111011110011110110111110110111111100010001111100001111101110001
100111100010110111000001001001000011011111110011110010101000011
110011010111000011111010001011100010011000011001000100001111000100
100111011110010001110111110110100001101110100110000011101100
101100100111000111100011011011011010111000100101101010110110100
110110000000101100100100001110001100111110111001010111101100100000
100001011011010110101011111100001100110110001101000001000100000
101101001010000101111101100000000111100100111010001111001111000
101011111101010011110000010010110000000100101101111000101101101
100111101101000010101111011001100110111110001001100000011111011

101111000101111011100011010110111101100101101111001000111110011
100011010100110100101010000111000101001111100001100011101001001
111110000101110100100101100111110101001010011010011110110001101
110101010011011101100100100111000000011110000000011101001000
111110010010010011110001001110000010101100011010100100101010001000
111010000010101010001010110101010101011110000110110100010001101
111100110011001001010010111101001011110100101111011101011011001
110110001101010101100110111101011011111000110010100101100110101101
101111011000101110010010011010110001011001011011000011010101010101
100010011100010011011001011110000101110011010101001010111000110
100010101000101011011001010011010001110001111111000010110001
110110111100100011110111110110011000110010010011101111110011000
100001111000111000100000011100001111011000111000111111000101101101
100100110000111011110110111110001100001101000011010000111100011
111111010011011001111100100011111101001000010010111001000111000
111010011000001110100111111011110110101101101010001101000010
100101000011110001110010111100000011100000000111101010101
111001001110010111010101011011000110110000011010110111001001000
100011011011011110001010010010011011000110101101101010101001111100
100101010011110111000011001110010111111101001001110001100101001
111100010010010110111101101011011001101100000011111100001101000
100110010011101000011100011111100100000011011000100110010010010
100001111011101000101111110000111100000001110100000111001101
111000011000111100011101000000010000010011101010100001101111
111111001101101101010110001100110110001010001100101010000
100011110110011011100011101000101001110100111110110001010101011
101011011000100011010001101101111000000111111010100011110100011
111100000110010111100101000111010011110011110100001001111110
101111100010001001001001011000001001100100100100101000010010001
111000110000111010111101110011000111000010111100000110010011100
111100000110101110001100110000001000111011001011011111101110101
101110011101110011011100111101111011101101101111111100111101000
111100111111110001010011010001101111101101010101111101111000
111011011010110000101100111100110000101110110010111101110111
111000000111010100011111101000011010111011010010011111000101
110101001111000011001011011000110011110010110111010000111110110110
100111010110010011011110110011001100111100111101100000100100011
101110010000111111010100110000000110111001001100000011110000
100001000010000001001110111101000011111010111011010010011101001
110111001110010001110000000011101100111011000001010110111111
111001011010010100010010010110101011110001101111010101101101101
110110101100111110010011011111101011110111111000011011011
111111111000100001110100001101000011001011111110100000111100
111110010000101011011001110000011001101110010001001100111000000
110111111101100101101000011100111000110011100111100010111100100
100011111001011100000111111000001111111101001001100001111110111
111100101010100111011010100010011011011111000111101110110111111
101010000100110111011111100011110001110101101110111111101011
110010110110100111011100010111001010001111101101010110000101110

111000011100011011100110100010110110100111010010110100011000
101111100000110000110110001110000011000001011101101000010011101
111100010000010000101110010011100111100011001111001101111100001
111100011100011111100011010110100011010001101111110110110000
110111100011011011110001111100101011000000011111111000010111101
110011001110011101111000100111011101000010110001100101110000
111110101111111010100001110000110000011111100101101101100011
110111111000101100001101111011111010011111010101110111110000111111
100011010100000101010000001110001101110001010101111101101100011010
100101111010010101010111111001111110111100001110011111100001110011
101100000101000111101101111111000111001110000011010010011100011
111000110000111011110011110001011110010011111111010010110110101
111100011001111110011011100001100010011111011010000011000110011
111000001011001111000000011010010111000000101000100111101101011
100001000111000101011011100001101111000010011000011101111100101
111001100010100100001111100110111110001111101110101101100101100010110001
111100000100011110001011000101101100010101100100011110001010111
101000011110001010111100000110110101100010011011000111101001
111100011010111000011101111110001101100111100011011101110110
111100000010000011011000010000000010110011110111100111110111100
10011011101000000110110101011011100011011101011100000011100000
110101110011100011011011111011011111111011101100111101111110110
111001100010111010010000011001000110110000100101011111010000011
1011110111110101011111110110100011001111010101011110000010110111
111110111010111011110011100100111101010011101111011011100010
110001100110101110001000101100000110111111101110111111110001
1010000100101110100010011000001101110100010010110010111100011000
110001011101001101101111010011111011010110100110001001010101011
111101000100000111101100101111101111110110011000111000011010111111
111000011010111010001000111111110010001001101011001011000110100
10001001010110001101011110110110010011100100101111011011000010
1101100010011000110001011000110101110110101001111110000101010
10001100011010101110100011111111010011001110000100011101000
110101110001111000110011101111100001111101110011100111100001101
100011010000001110001100101100100010011000110110011111011100
1110101001110110001100110011110110111110010010101100100011011111
1000101101101110010110111101011011110100011110011110111110110
111111000111101011110101000100110111011010110001110101101001110
100000001101001000000011001000110001100010000000011101011011100
110111011011100001111011000011011100000010000001011001100110
10010101001101101011111001011110010111110100000101001101111
111011100111110001110100111111110111010010111100000111010001
101011011111001111100111000011100101111110110011111100111111110
10001010111101011011110111001101111111100110011100000101110011110
11001000000100000001110010010110111000000010101110110110000101001
1000000010110000000101100000010011011101111011110111110111011
111101011011010111100111010000110011001111101110111010000100001111
111000110001010000000100100011100010011111110000011110100001111
1000000001011111011010100101111101111000110010110010010000111000

110011100101010101110110001010011011110101100010110010101000011
100000010010001000110010110111101010011011100110000011100110001
101010101110111010011001101110000011010001101111111011110101
101001000011110000011001001000011111101100100001000000000101
111110110000010101101111001000001111000111111111001001110101111
100011011010011011000001001110111001100110001100101101111011101
101100011100010000101110001001100010110111010001101111010011010
100000010010101111010011111001110001101101011001011000110011100
110000001001101010100000101100110000111000110111110011111001110
101100101001001110000011100101111110011101101000000110001100
100001111111111000100111000110011001011111101110110110000101001
100000101001101000011010101100111001001110111100110110100111011
111001001010100000111000100000000111000111101100000101100101
101111011111001011100000011111111010101110111011100000011001011
110101110011111101101001011001000011111000010111101111000100010
100000100011010111001010011100011111110111111001100100110110110000
110001110000100000101100110000110110101010000100001111011001110
100010001100011010111010100000100111000010001100111111011101111
100011000110101001010011100100000100011000100000011011101010110
101110011001011010110100000111000010111011101010010010000010000100
111111000000011100010011010000010101101011101100101011010100100
111110111000110011011100110111011011001001001001011010010100100
101001100110001100100001111100000100101001100111000110100011101
100000111001000010110110101110001101110010000101001001111010101010
110011011111110101010100110110101010011111101100111101100111000011
100100110110101111001100111000100111100011110110110010011100011
111101000110001000001001000010110101010001011000010000110000010
100111101110000000110110001000101111110110111000110000010111
100011010010010001110001101011100011000101111000111100100111
111110110101111111010111110000111010110111111000111111100011110
100111110010011110101001110000111011110111100011010010100111101
110011100011011101110100010100100010000100101101100000110001101
100000101000001010001100100000001100000101001110011011110100011
110011000110000010000011100000011100010001000110000101000111100
100101100100101101101011010011000110011110111000010101010000
110100101011101111101111111010001101111001100011110011001110
110010000000001000111101111001010000101101110111010001010011000
111011110010001100100010100010010101011001000101001001000100000
111111000001101110111100010000110001100111011100001001011110111
111110100001100101001010111101100010010000100101101110100011011
110010100001110111001001000001100000101111011101010011100111 0011
111011001100100101011011110110011011010000010101011000011000001
101110011100010100101110101000100010001110101100110000111011011 1
100010011111001100110010011001111100000111011010011110000 0100
100001010000110010000011011110110011010000001010101111101011 01
100000101010011011100101110001100001100111100010011100000100 1011
101110011001100000100011111101010101000100001101111000001001001
100100011000100111001011111101011000011100001001101101000011111
100100101001111101101000110011001100110110111110000010010 1100100

110101011011111111001110000110100001010101010111100001001101011
100101000001110000011110110111001101111011001101000011001111001
110000001110000010110100011000000101000101110111100101100011001100
100100000010000100100101110000011001110000010011011100011000100
110101010101100011111001110001100101011011111101011011011001
110011000110000011100000111001100001100100100100110000100010110
111100010011011111101101100000101000011010001101100100010011011001100
111110011100110101011111110110000110100000100100100110001110110
110010010111001111001110111100110110001100001100010111001111101
111010111101011001000110010001100100111110001110001100111110100
110111111111011110101100010111110110100000000000101011111001110
101101111010100111000100101010000000011001110000010000011011011001
110101010101011000111000111110100100101100100101001101110011111011
100001110101100110011101011001001001011001001001110000011110
100000111100011100101111111011101000101101110000110110101101101110
101000111110101011111111110000011101100011000101111010000001
110101101100100111100011011000000010111100011010101011101001001
1111110110111100010110100010101011011111011101110100011100010100
101110010110000001011010010101100101010111001111101010101111101100
100101000101100100101101100101000100111110100011110001001001
1011111011010010110000010010111000000100011111111111000001001011
100011100000110001101010101111110101110011010100101001010100010111
110000111001000111010001101111010101111001001011010110111011000
110001001001110110010010100010011111000100100010100111000001
10010101001000100101100100001010001110011111110110011111010110
1111111111101111101110101000101010011111001010011001110011000110001
100100110001101010011011001001010000101111000111111011111000
1100111001110000111000110000000110010010011001000100101110000100
101110111100001101100000011011110000001010011000110101101010111
110111101000001011000110000010011101000000111110001011011100111
1100110101100110000010101101100101001001111110000011000001010100
1011111101000011011011111110110101100011110001111010110000110
111000001101101100100110010010111010011110001101000011001111100
101001000111000011101010111111101100110011001100100111011110000
1111100010110001110000111111000111010010100100001000111010001
100010110110010011010111100100101000101000110011110101111000100
101111010010101011010000110011000001100001110101100111110001111
100101001010111010010000011001100110000001001100110110101010101
100001001001010100100101010101001101111001001100111001100011000000
111000001111110110100001110010101010001100110111100111100011010
100001110010000101100100100110100011111101010110101111101
100000100010100100000100011000100110011000011011001001101111000
100111100010111100111110010000110010001100001100101011101111000
110010011101110001000001010110101111110101111101001010010111111
100101011011101001001011110001110101111111111110000011111000011
101001111101001001101011110101101100100100011101101011011111111100
101101111010011110110100010010000011100101011000110100011110000
101101110000111000010011100101001011111100110001101110000100000
11000010010111001111111101011110000000011011000111101010011111011

```
1101110100111001001010100111000100001111010100010000100100101
1100100010110111010000000111101111011011101011100010011110
10011110111101000111011110111100011110001101011001100010100
10110010000100011001110010111001101000011111000001011100100 10
1110010001111001001001011000011111110100100001001001001001 1011
1011100011011111100011100001000011001001101010110110010101 00000
1111001001101011000101000110001100010011101010011100011101 110
100111010101000010010100110010100110111101100011100010000 101110
10110100100101001110010001101111000100110100010000101001 01010
1110010011100001011101101010101100011000111011001001001 11110000
1111110110101011011110001000010111110001001110001001111 101100000
11100011111010010101000111101110110110000110001101100101 10111
10001100100111001101111000100110010010110100000110001100 10101101100
1011001100100101101111000110011011100111011100010011001 1011011
1010010010101010010111000110111000000001100011001001011 1010
1001011001011110001010101110000100011011010100111110001 001110
101100111101001010111010101000010010110001000100000010 0100000101
11101111101001111001001110010101001001010101111011010 101010111
111011011111011110001101001111100001001101100100011110 10011101
111011111011001010001100100100111110000011010110111001 110111011
10001000100100101011011011101101101111100101011001011 1101100101
11000011111001000001100100111110100111110101100110111 1011001
101111000000101101101101011110110100001111101101100100 1010111111
1000111101111110100101100100110010011111100000101101 11100100100
100001000010101011001101011000010111110110001111101 110101001110
101000010111001111111100011101101110111011100001000 10111010001
10100100010101110100011010000110110100000000010011 1000100100000
100100110010110110101110111010010010110111110001 10110010010001001
1001000111100011111111010011110101001111101111010 10010010001010 01
101110100010010111011001100011100000011101001101 000111001011101
1110101010110110111101000100010000111110110010 1111000001011
11110101010110000111110101111101010010000000001 00111111111000101
1000001101000001001100111101100110011101000011 111111011001011 01
11100011011001101011011110101011111011000110110 110010101010011011
11100011001001011101110100011011001001000100 11000100110101110 1
10111000010111000101111110111111000110000001 0101011001011110 0
11111100001110111011111111110111111111111101 10111111000011111 0
110100000101110101111101000011111101111110000 01111111110111
1011101111000100111000111010101110001011110100 00000011111110 00
111110011110110111011111011101001101111110001 100110110010101 01
1001110011110011101001111110001001101100011011 1100011011100000 11
11001011000000011000100000110100100101011000111 011000111011000 0
11100110000111000011011010110001000100101100110 00000111101000 1
100101100010110000111011101000010110110010101010 1111100000
101110110010100101010110011011101001011000110000 11110000101 01
11111010010111011101100110101011011000001100110 10110100001100110
101101101110000010110000110101101111001100101110 00111101100011 0
1100001110000111111111111111101111111111111001011 1111100110010110111
110111010010111100001111111101111111110000011 11111111000011111 11
```

1110001010001110010110000111011110001001111110001011110111
1110000001110101110110100010101111000101111000110010010100010
1110010111101110011101111110110010110100100100110001110001011
1100111111111100111111111011001111111110110110100011000101110
1100111101011110000111010100111110000111111000011111000011101
1001001001001000111110011110000010011011000111000001000001111
1010100110000010011011110100101111011000101000110110010001101
1010101100110111000101001111100100101110000110111011111001001
1011111000010100001000111110110100001101111111010111011001110
1111101001111111110111111111111011111010010011111100110001011
1000011110100001111000011110101011111111101011111111110101111110
1110110001111011101000011010011110001011100101101000101000011110
1011011010110010011010101101010011111111010000011111111000001101
1001101101000100110010100010001101100100111111111110000011000000
1011001011010111001111010110111010001101100011011011111100101
1110010101011010011011110011111111011111111111101111101111011111101
100101010001001010101010111010100101101110111010010010101101100001
1100111010001010010011111100100011001001111101101011101010110011
1001100100101000001000011000000001001101011101000111111111110110
1010001000101000100100000011101100101100011010010011010010010
1100110100111000101101100100101101110010010111001110100100101011
1001001011001101011100110111100000100011110111010011010111101100
1110111101101101111000111100000011100011111010001100110010101111
1110111110001000000110111001000101010100110101010110110011
1110110010110111000100101011010101011001001100000010110010110111
1101011101110001011000110010011110110100000100100111100111110
1001110010110100000100101110001110101001010111101000000111101001
1110000010011111100011100101110000011111000100001100001111110
1011000111000001100000100100110110110010101010101001011011111111
1110000101110011101011010111111100111010011101010101011110111111
1111100111011010101010111100101100011011000111001000111011000100
1011101111010010011111101000001111100001011011001001010100000100
1111100101011000101010111001001000011001000101010010011110110
1010101011110010000111001001101000111100010100101111001011110
1011110010101010010011000100111011110010000001001000111111110100
1111010111000010110111100101010000011111111000001100111111000011
1001110100010110101010000111000011100011011101111000110001001111
1011111100000101101110111101011011110010100010001100011100001001
1001011111011111011001010011100010110100010110110001011111000011
1011111001101001010101011010110110100010011111111100100110001111
1011011000101110100101111010100110010001110111001000111011011010
1110010001101001010101010100111000101100100110111000001101100101111
1110101111100110111000000111111110100000101111000111100001111010
1101000101011000010011110111111000110110111100100110101101
1101100111101110000000001000011000111100011101110010010110000
1101010101010101111101111110111111111100001011011000110100110000100
1111111011001001010110010011010100011111001001111111110000011
1011100011011100001010010111100001111101100011011000110111111111101
1111100010011010110111110100001101000001001011000010000101010101101

```
100000000111100000111011000101010010110011101000101101111000101010100111001011010110010011100100100010001110100001001011001011000011001000010010101110000110110011011110111111110000010101101110100011011110001000100001001110100101110100110100001010111111110000001000001100100101000111100011011110001111100100110001000011100100000101111000011111010000110111010000100010011111000011111111010011010010110110001100001100011011011011000001010110101010100101011100001101000110100110001001011110000000110110111110111000000010011011011001111001001111101100111101101100010011111001000110001100101010100010010111001111111010111100110010010010011001100001111000010101111010110001011100100100111001101101010001011100000110110101110110110011011001011001111010101110000101000111000011011111110100011110111111110110111111100011111100001111111010111010001000000101111111001110110111010011001111111110100010100011011001010011011011110110010001110010011100011011111011111100100111010110001000101011110000101100100110111101101011111001111111100111101110011111000110000010111011011111011101100011110111111001111100011010001100011010010001100100101111110010101101000010111100011100001001100100000000010101011101100111110100101110011111000011100111010001101100001011110010001101000110011010000010100101100000010101111011011010101101101111101111100100010000111110110011100010000010010101110110000111011110100010100111001000110001101110010010101010011101001101111110100011000010001001100101111000000110111000010011011110111100001000111001001010101000010011010000101111100001011001000111011010101110100000010011100010111110110101100110100000101110100101000110111010011111011010110110110010000000010110101011101000100101001001010011011000000101111010111111001111011111101111011111011011010111100010101100011011001100011110001111111010101110000001010100010010011000100011100011001011010110001110000010111110100100100111000100000110000000110011010011101110011011001110111111100011110111101000111111101010111000000010111011010111111010110111101111100000111111000011111011100111111111110000011010111010001111101100011000010011011001001001101011111100011001000110101001010100110010111101100101100000111011001111010011001111111100101110110101101101010111000011101000111100110110011001001101100010101101000111110101110101001100100110100111011011101000011001110001011001011000000110100111010001010011000000000110010010011110110101101111101101100111010010010111010001111010010110101100011110110001010110100110000011100100111111011110011100111110001100011111100001110110101000110111111001000001001001010110001001011110110111011100100100110000100111101111010010111010101010111000011101001011110000011000101111110001100010010010100111100001100011101100101011000001001011001101110110111100001100101110000011000101101010111011011111110101001101101110011110110010111101010110101111101101011100111100110101110111111100100111100001101001110011011001101111111100111110111000011111010110101011101100000011011101111111100100110000011010111000100001000111110110011101110000010010111110010101011
```

111100001101111000001111010111110000111011100100110001010011
101111110001100000101111000001110001011111100001101111011100101
100011100111010001101110100010011011010111001100000011111111110
100001101100111101110100010111001001110111111011111110000011111
100001101000010101110000010111110100111101101010111101110100101
110110000011011101111000101101101101110110000000111100101111000
111010001110101101000011101101111000011100011001000100011011010101
100101110101110011110001101000010100010011010000111001000101110
101111011111011010110110101111000110111101010011001001101001111
101001011100100011111111011101110100101101111011010101110010001110
100110011101110000011010101000000010000100110010100100100010111
110101101100100111101001000111000001010111000001001111100001
100011011110101110011000110100110110100100101011110101111011001
100111111000011100111110101010011000001010111010001011111100110
101110000001110100000001011001110000011001100111100101111110101
100010111011110000000111101000001110001100011111011111111101000
1000111110100101100111101000100001101001110111110001011011111000
111000100110110011100100101111011110011101000010010110101010100
110111100010111101011100010111111011101001001101011001100000010
100110001011110000101001011011110100101111110100011011100010
101110100010110010110011000100111010001110011110100110000111111
101010100010010111011011111100111100100100011010110110011101011
1111001110001000010110100010101110000011010100010010010111101
1110011101100010101111111100110111000110001000011101001111110111
101110110111100111011111011111100001010111011010101010101010101110
100110001101000011000110011100110110010000111001101100110111011
101110101111111010000100110111100011100000110011110111111100110
1101101110001011110100101011011110100011011011001001001001011001
101111110100111000001011111100010010001101101110001000111011111
100001010001100100010101011111100110101011101010101011010000111110
111111011011111010000111010000100011000001001111100010011100011
111101001011100000001011111000111111111010101111011001000111111
101000100100110100111000110110010001100010011110111100110111001
101100001011110000100111111111010110110001100011011010000111101
111010010001011110000110100011110001100011100101101110110111100
110011110111110111011101100011101010001101100010011101000101010
100010101110110010110110011100101100010001010001111101111101
101010111011100111100000010001100000010001000100101010010110011
101010010110111001011111100101110001110000001010110011000110010
111011100011100100001101011001101000100111011010100011001000110
10010111110111011111100011100100010001010011011010000101101100101
111101111100111111110011111111100111100101011100101001001101011
101011110000001110000010001011100011001011101110110010101011110011110
110001101100101000111011110001101110011101011010110101101101
11000010001001000110100010110011011010000101101011010010101011
10000100111000000001100101001110010101100001110001000110101111
111001011100100001000101111110110101101011000001100010100110111
11110000111100010111111110011111111100111110100001011001010101000
101100101000101011100101100000010011011010111111100001111001000

1101110101101110101101111001100101011100010001110011000110011001
1001110000010100011111011000110111000100101101010000110010110
1100001111100000011100101010101011011011001010111000000001000110
1010101110101011001010000000100101100110100101101110111110000100
1010100110111100100111011001101101010111001110001000100001100011011
1100111001000110001000100001000111100111000100100101000111001010
1000010010101010111101111100011100000011110000010011110001111
1100010111100010111100101100011000111001000110000100111001110000
1101000100000011110001100000010001100001011100110000110100101
10000000101101111101101100100011000110001111001010011110001000
110000011000100011100101000101001100010010001010100011000001
1100011011010010110101111001110001100110001011000111101111001
1101010000100110111011111010010011000101101110101100110011001000
1001100001010011001101010001101100011110010011000110110001000
111001110101101000101001011011000001011001101101000011110100111
1000110011001100000011110100101010000000011000111101101000011
10010101101101111011011111101011000100111000011111000011101
1111110010100101010100101001100110000101101011111011011011011
1100011000111110000100101001111100000000010000000101010000011001
111111000111110001111111011001110111110001000110110101000010101
1010000100110011001111110100001111110111001111110000111101100
11111011110100101010110001100101100111101001110001111001011100011
1001010000100100010100000111000010010100100011000101001100011011
1110011001111110100111100000011110000111001111000011110100000101
1000001101000111110011110110111100010100110000001001111110
10100100100100010011000111001101000001001010001111011010001101001
101001000010000001010001001011110110101100100010011100000111000
1110111111000101010011111011000111011101111101101010001000001
110001101110010100010101110000010011101110111111101111111111111
1000011100000100110001100000100110100001011010011001100010000000
1110011101100011100100110100010001111001110101100101111110000010
11001100110111010001111101101010001100101100110011001110000
1110111111010001110111000001011100011011111110000111011011111101
110000101111101011110011010110100011000101000000010010111000110
1010110001011000110010111011011110001100000000100111010000101
1110000011011001110000110100100001110001101011011010111100110011
1010110111111111010000001000010000010111000001111101110111011
1110010001100011001101011011110011111010110001111000001000
1100011110011100001010000101000101110100000101110101101000001
1111111000101010001100110000110000100101100011000110100010100010
10010001010100001000001010010011110101101000001000001101101000
10001110111110110000111111000011111101011111100011011100100011
111100001111100011110011101110011001110001010100010010101011111
1110111000100111110010101111000011101111101110100101111110000
1000010001100110111111110000010101101001000001010100111010001111
1001010100000001100010101110001001011110011000001001111010111111
101010011101000100101001100010101001001010111100000011111110100
10101111110010111001010101100011101111010000110010010000000
1011010101010101110000110000010010010100101100101110100001011101

111110001110000100111100010110100000010000110100101001001011
111011001110000111101000110111110110101110011010111100000010
101111000101110001111000110000011010010100001011000001010100
100101101011001110001101010110011100011111010111001110001011101
101100011100010001111100000001000010100101111000110010101010100
101001001010001110000100110100001111011010110000111100110011110
111100110010110100001110011100000110110100100000000100101101101
101000001010001010101000100111100001010111001000010011110000001
101010010100110011011101001011001101111010100101010101000000
101000010001010000110000101110100010010000000010100011000101
100001010001100011011001110010111010100100100000101000110001100
110010111000011001011101010001101111011000110000011100011011101
111101011110100010111001011011111001110110011111001000110101111100
100100110110010010000110100101000011100000101010000111111110001
110011101100101101111001001100011111110001101001100100001111011
110110110110111100101011010001111100111110000111100010010101110
111000101010100001011110001101110010010100001100111110001100010
100101001110111000001100011100111010111011110000100000010101110
110001100111001110001011110000100000111100010100011111001100110
110001100110001001011010111000011010011001110010010110010100110
100101111101101001101001010010110111000110010000100000001100
110101010000010001001110000101010110010001100000011000010001
100000100101111010110111111101101111011000011011001100000111001
101100110100000000011001101011010101110000001111100011000001011
111110010010111011010101100000000011011000011000001110010001010
111010110001100000001111010000011100101101111000010111111010011
100000111000010111110000110110000011010111001001111010101000110
110110001100010100010110010110100001100001000011011101000110
101001011111111100001101111111100111101111000100000111110001011
101000000010100110101001001000101001110100010101100100111001110
110010000001001000111001000011111101010000110000111000111010
101001111010010100101110000011100100011110111011011010000111110
110001000000010100110110101000001100100100111000000010010111000
101101010101111001110011001010001100001111100000001011000110
110100101101110110011011000000011011010000010101000110011
110101000011101000011110000010101011110101001100110000011111000
110000011110110011111011111100010100011100001111110011010100011
111011100110011110110111000011111101110011100111000010011101010
100000001100000010111000110101011100000010101010111100101010001
100011101010011000100001110000001111010001111111011111111111
101101110110000111100111001100011111010111111010000001000111
101101101000111000011011000000110001100011100000010000000010010
100011001100110011111101001111010101001110000110001101001111000011
111011111100110010100110000001000110111101100100011101110111
101011001101011001111010000011111100110111100001001011000001
100111110110010011100100110110101010110100000101101011100100111
111101110111111010101001010011101111000110001000110101111011101011
110011111011000001010111011000101110000101111100001100110011011
100100011100011101001010001111101011001111010111100111101000011000

100000011001001110010100110100011000011100000010011110000101111
110111010001100011001011110010000111110100000000111001100101111
110111100001101010011111101000111110111011011011010010011000000
101011100111011011011001101010101000001101000001001110111000
100110001001101100000111010010111100101001010000110011011
111001011001100110111001001100111000110011100100011011001101111
101001100110010110110100001101100100011001110000100011101110101
101100011011101011001110000111110101001001010001001001111110
100011110001101110110011110101011010000010101011000001100011100
111101010011111110110000011001110111010011001101110110111110010
110011010011011010011011101100100101101111101110111010011111101
100101101101111100000011100000001110001100011011110110000011000
100011001100111000001110011101101101100100100101110000110010000
110111010010000101110100110111111010111111010001000111010111011
110111100111111010111101111110011110000001100100100011111100000
101111000110000111011000010001100100101011111100001111001010010
111101001001110000010110111101101001111011110001100011010000000
111111101001100111101100110110011100011001100001100011100110
100010101110101111111100000001110001100111010110010010100001101
110001100111110000011110100001110111000010011011110100111111110
101111101001100111100101010101110111100010001001000000111001001
111001101010000100101010100100010010110001101000000101111011100
110111011000000110001100111101101011111011010000110010111110
111001000001010011010110010011001011000000101010001101110000101
101011000100101010011011101000011001001110001111101001100011010
100010110010010010110111100011110101111101000110010010110001110
110010011001100000100000110111100110001011001001001001001100011
100001110000110110100110001000000001010000001100100100111111011
100001001001101010000001001110110001001000001111100100100101111
101110010001111110011101111110110000010011100111010010010000011
111101101010010101110011110111000001101000110000001110110010011
100000011100001011110110110001110011100010110000010010011001000
101000111011000110110001100101010100110010111000000101111101111
111111011011111000011111011011111111000111111101001011111111001111
110110001110000001111110000110111111011000110000101111111000101
110011111011100101111100010011110100000111111111101111110101110
111000000100101100101011110000011011101000001110110001101000011
111010111011001100000101101111111111110110111111111101011111110
111101011011001111101101000011001110000000010100110001011110011
110100110111101110101110011100101100110110000100101110111001000
111000111110111111010000110100111001110011011000100111010010011
110100101111100101111001110000010101001110100011100100000011100
111111111100100111111100001110010110111000101101101010101010001
101000101100111000011000111011111001110000001010110101111111000
110000000011101101011010000010110100011010101101000100010
101101011101101010100100011101110110001111001000001001000111
11101111111011100001001010110010010100100000000101111110101111
101110111111011101111101111011111100001110000111111011000111111
11100101100101111000000110011100111101001111101101110010010

1101101101101100011100010100011011110110101100011111000001111
1101111000010000111101001001110000010100101101000111101000100
1110001101011110110000100001101100010111100001011010100111001 01
1110000100111110001011001110011101110010011110011011000111111
1101011100001110101001111101000101111100100010011110000000111
1110010110011111000010110101101101000101111000111100011010
1000101101100011111000001111011000001101110110110010111100000
1100110001100101010111100111110001101111101111011101011100011111
1110001101110000100101101001110001000110010001001001100011011100
1101010101011001111011101011100111111100011011101011110000011111
1100101101100101010010100111100000110100111110011100110111100110
1100000011111000011011111010111000110010010001110111100110110000
1001011101001111011100000100001110011101110001001000111110001011
1010101011110111011011011010000111011010111001000000100111010010
1001011101011110000100011000010101010011110000001010111010010
1110110100010001110010101010000111111100001110111011000011011
1010100000101011110000011011110111101111100001011000001001011000
1110100100110011101000001001110001100110001101000100110110001
1111100011100100111010110111100100111101110010010000110111011011
1000110001100001111010001001101111110011110101010101000111100
1001100110001110000100011001001101001110000011101011000100100111
1000111000010011000101100011001011000110101111011101100001011100
1110110001111011101011000010001001001100100111001001100111100100
1100110010011101111011001000011110011011000111010000101001
1111000011100100100100101001101000010010111011101000111111000
1010011010111000100010010011010110000010011010101101011011110
1000000011100001010001111101100110100000100111101000000000110
1010100100101011011100101111111111001100001010010101001010001111
1101011101110110011110111001100111011000011101000100111001010
1010100101110001100111111001110010110111010101010111010111011111
1111011001001011010011001111100010010000001001010111011111010
1111000011101011100100011010000101110000011111110010001111110000
1001001100011101000001011000101111010111100000101111101010100110
1001001011010101010111100011000101100011010011111010111001001100
1011101111100000100001011011110001101101111011110110101111101111
1010011010110111101000010100111101100010110001100000000010010010
1011101111001011111000010110001100011010110010011000100011000100
1011101001011110111100100110010010000110100010111011010011001 0
1110111001011001111100100101011100101011110100010111101000110 0
1001110111011001001011011110110001001100000100111001100101101 01
1111010011001011110110001101001100000011110000010101110010010 0
1100000100111101000010010000011101101111100011000111101000001 1
1111000101100010001111110010101100111110010110011100111101001001
1001110101111011100000011100011001100111110110001001111100101 01
1100110111011000101111111100100101101000111011100000001001101 1
1111100011101010100110101110110110001110010011100010011110010011
1111100011001110011110100111100000000111100000001011111100
1111110110011010111000001011000011111000001001111000110110110 1
1010011101110110100001110011001110001000111111000100011110101 01

100100100011101110001001111100111100000110111010011011011010010
110001101101101100000101100001001001001000100100010111100011011
110001101000101101100011011110111011100011111010001001111101111
100001011100001001110011111100110010001000100110111001100000000
111110101011011010110011000001111100010100101100000100010001001
111000010101110010001110011100001101111001101100101101110110010
110011000000000111000110111101101101011011111100111011100100010
110100000100011100011011111000011100011011011111000001100000
110101111010001110101110111111011100111111010001110101100100000
110111110100111110100011000110110000011101101111110001111011111
111000000001111010001100111000001001111101011110011100110101110
111111110100101110001100111011001101010000100110110010101010011
111110100010001011110110010110111111100100100011011000011110111
111110001001110100001100110100010111010000100110101111110101101
110000011010001101000111011111100000011100011011110011101000011
111110111010111000110011101100011111110101101111110001110011
100011000110100010000010100101010100011110010000011100001011100
100100110111000010010000010111011000010110110110110110000011
110001011111101111100110110110010011111111011001011001110010
111111000000011111000100110011011100001100010000001011101001001
110010010111011010010001100001001101001011011111100111010110
101110110011111000101100000100111101000101100011011101110100011
111011001011011000110111101101000110111111001111100011010111111
110101101111011101011000110110010110110000011000010111111010101
111011010111011101101001111100000011111000101000100110101000111
101011101000001111101011011111100110111110010010101101110111010
110001001001101001110100011001110111100001111000101011001001011
111101110101101101001101100011100001011110001101011101010111
111100000011101110111001001101100100000111000010111110101110
101011011001111011011111000000111011111110011011111001110011101
101101010101101111100110000111011000110000111111100101100111011
100111011110001111111011100110100011001100011000010011101100001
101001010110101101011011100100100111001111001011010001001011110
110110001010101110001001110111000100101110101110111110110100001
100000011001001010110001110000100111101001000000111010010111101
111111011100000100110111010110111100010011010001100101011110100
100111000000101100000101111000011011101111110101000100111100110
111011110000001111001100111100001101100010010101110000110110
110101011110111111101111001011100001100001100011010101000110100
110110110011101000001111101111110110100001011101110100101110011
111011000101110000011011110100110011011010000011101011000
110110110101010101001111001001010010111101000101111101000010
100111110110000011110000001110010001010001001000001011001
101110010100100101111001110101100111000000001100001100110
101000111011100100000110110100110101110011100101111001110011111
101101110100001111110101010000111111001111111111001001011111111
110010010010001011110000100001110000011100111010001000110000001
110110001110000110101100010001110011111001000110001110111000
100010011100111110101011100100110110010110011010111010110111100

111100000101000110110110110110000100100110101111110101000110001
110100100001011111010101111110001000111000001110000011010101
10101100011100010001111110000011111101011101000110001010000111
10000111000101111010011100110100101111001010110000100101011100011
100011110100100111001011100010010011110001101111001010111110010101
1111000001010111011000011111010110111001001011111101011011111
111101110011110110101011101101001110010001010101111001111011111
111110000101101111100001100111110100111110101110110000110101
1011111011010111110010101111101100011101011011101100110011111001
1001100100101100011110011010101001001000011001011010100011111101
1001010110000000000101011110000000011000111100101101100100110111
1100110000011110010101011110010101111100100001000100100000001010
101011000110010011000010111001010100001001011001101101010011000000
100000001000000010001001101100100010110101010101000111100001000
101010010010001110110100100010100000000011101000010000000110000
101010010000000010000010010110001001101010111100111010011000001
111011110110001001000011100001101001101111011011001011001100110
11101000011100011100000110011111000100110110011100010000010001
101101100101100111001011000000111001100100000110000110011001111100
110101001100101011110110001110010110011100000110000011100101111
1001100010010000011010010000010100101011100001100110100011011111
1100001001110011110110001101110010000111010101010000110111100110
110011010111001001111101010011110010011101010011111011111110010
110111001111011101000000110110101110111101111011110000110110110000
10000111000001010101110011101100101001011011001110011110101111010
101011110000000000011000001100111101010110000000001101011001001
1010111010110000101110001010100110110111011001010010101101001100
1101000001001001101111101110000001000110001001010110010101001000
1100000001000111111100100001000111001111110000011100100111010011
1110010010111110100101001001010000111000110000010000010100100001
10110001001000100100110000111110011000011100110011001000111000
100110000010101000001100010101010010010010011001001100010000110111
11010110011001110011000100010010001101111110110011110010001100000
100111001000011010101000011100001101110010000101011001010001110000
1110001100000110100010000111100000001010101101010100000000000
110000011111000100100100110111101000110011000100011111011100110
10110110101111100010000011010101111110110011000001111110000011111
1100101011001110011010101011111100011101101011110001100000101001
1001000110110101010110111110101100011110000101001000010100100
1010000001011001100001100010011100110000000011001110001010010
101001100010011000010010100010001100100101101001100011001011111
110010001100011001000100110000111011000111000111110110001010011
10000011001101101101001010000100010111110010011100110001111100000
11001100110010110101101010101010101100111000110011111100101010011
11000110101001111100100000110111010110010100000100110100111
10010110100011000010110010111101101000110011110011101101000011000
10100111000000110111001111101110011100110011111111110000011000
110100111100110011111110100111110110010001100100111000010010011001
11110001011000000100001000000010000101111110011011001000000000100011

111101000111001010000011000011011000001101101001110011110111100
100011000101010000100001100110000010101111100000100100101111000
110011000110110000111101100111110100000101000001000010010010100
100101010000010101110000011101101001010001000001110110100111110
101011011110000101011101000101010011011011010011100001100100101 0
100001101101000000111000010000010000000111000001110011111 1
111101000101000100010000111000101000000100100001001011001101010 0
111100000011001010001110101000001010101111010111001011110000 11
110101010001111010111010001010010100001111101000110011000000111
111101101011110011000010110101100110101101100110100000111110 1
111101111011111000100000111111101101111001110111101101011100100 1
111100100000111110001110010011000000100000010111100100001010
100000101010101110000010000111011111110000111011000111001101000 0
101000110001011000100011010111101001000100111101101110010111000
111010000010110110110100111011100111011011000001001101001101001 0
101110000000100101100001010010100010001110010010101001110011 0
101010100110000010010110000111100011000010101000000100110101100 1
110110001111110001110001001010000101001000101010000101 10110
101101100101001011010000100011001001001111000000100110010011001 1
100101011011011001000101001011001100100101010110010110000111 00
110100011111110010011111001001111111100111100001100111100000 01
101011001101011011001110000110111001001011010000101000101010
100101010101010001110000100001101111101101010100001010011 0
111000100101001101111000110011011010110100001001010111100111 0
110011001000001011010000011110100000101110001100001000111100010
101111010101011001010010100011000100111110001111110001110 0
110001110011001100001100110100100101000101010100110000001111000
111001011001110010110111110100000011111000010100000001110011011
100111010011011010100101110101101100100110111111011110110001101 01
100011010001011101101011110011000000100110110011100011110110111
100011111100011100101000010000010010101101000000010100011101101 1
110000010101000011100100111101101000000111011010001100011 00
100000010010010111110001100011001110000110101000001101110000 00
101000110100000100100111001110100001100000010110101011011001100
110001111101101011001010000101110010000010100001100001001110001
111001101111101110111111000011111101000100011000110000000011001
110100000101000011001111010010010000100100010001100100000011110
101011000000110010010111000000010010101011001011001001001111101
111101111101000111001101101101011111110001110000110000010111110
110011110000110011111111000010110111111010100100010001010100011
110100101011100001110111100001110010001000111001100110010101 0
110001001001111001010010110011011011001001000111101110011111 1
100111010110100011111111010111111101000110011010110111111010000110
100100011110000101011111000011110111100100011001011010011100
111000011010001000100100110001000010010101001110011110010101 11
111010111001111111010000011101101111101010101111111110101010011 0001
110110100001110110111111101111010111100010001111111100101101011
110011111100100010101110010010001001111010101001110101111110000 0
111100010001100101101110001100100101001001001001000000000001010

111000111111110010010100110100000111010001001110111011010111010
100000101100100111001110111110110011000001010011001011110011010
100110001100110101111110010010011011010101110001110100011001011
111100001011101010111100010001110101100110010100110001001010
101011001001111111110001110101101100011101111010111100111011
100111100111010010100010111110000011111011111101000000111010
100110100101100110011111010010000111101000011001111001010011
100001111010000011111010101100111101011011100001110010000111000
110110110010100000101101110001100000101100010010110000011110010
101010011111000011100101111000011110010100000101111111101000
1110000101100110111111000001011011010000101010111010000101001
100101110100010111111101010101101000011011010111000100111000010
111000110000101111010000111111001000001101101011011100011010
111011110101101100010000001101101101000111010110111110101111110
1111011000110111111100101100110011011001110000010000011001001011
101001011000001110100101010000111000100111110000001111100101101
110000011110001100010000010010000110101010101001110000011010111
111110010011101011011010111010001101111011110011101111001110111
111010000111001011000100010010101100000111001001011000110011101
111011001000000100001110000110110010001000001110100101000110010010
110011010100000101101011011101010000011111101100000010110110010
11100111011000100110000010000010000111000111111000100100110110
1110001111011101000010011001111001111100000011000110010001
111000000111100011101110100011111000001101010111000110100100
1011110100111100011110011011010101010111010010111110111111111
1111010011100011111011101010011010110011010001001111001001110
110110000000001110100100010111000011111110010011101001001000
10000010101010101101011111101001011011101101000011110001101001
110110110100001110111010000111100010101010101010100110110011010
110001101000110000100111001101100011101110011101000011001100011
111100001000100111010010000110111100111000001100111010001000
100111001111101010010111110000111010001100011001000001110011
111001111001110010001110001001100100001111000000101100000011
111011100000001011111111100010100011000001010011011010001001
111100000001001011010000001001100100101100100000001101100111
100111101010111011010100001001010110001100100101011100111110000
101000100110001011001110010110011000100001001000010010010
110011010001101101101001111011010010111000001001100111011011110
10011001010011100000011011010001111100101110001100100011010000
1110001111101001011001101110010011001101111011111000010110
110100010011000010001111001000001001010000011001001110100000111
10001000100110110101011101001011100011111000000101110110000111
100110000011110001000001100101100000110100010010101011000101010
101000001000000010100100111000011011001110111000010001100100
1010110100100100001110101011000110100011000111110001110111011
1111011101000101011110000001101101100100100011011001000111100
11111010011110000011001111011011111110100100011001000100110011001
111111110011110111010010000011111101011100100100111000001101110
111011111111011110111111111000011101011011111111101011111111111011

110100000111011010110110010011011100001110000111100110111111110
111100110111100001110111110001101001100011010111100000110010
110010110111001001101011001111110100011100111101000101111010001
101111111110001010110010010111110011111010100100011011111010101
100011111110011111010011100000111000101111111001101111111111110
100100010010011110111010001100001110000110110011001001001001
111000011011101000110101101110101010100110001000100101111100
100110110111011001001101011010011001101011011001111001010010
111000011110000111111010001111111110001111001011001100001110111
110111110100101111100001110110101111100010011111110010101111
111111100010100111011001001011000010101001001111110001011111111
111100101100000110111100111111011101110111110011100011110010010
110011110100010010011100111000001011001000001001101000111001001
111100110111111100011011111100001110011101111001101111111101011
100101011010000010011111111001001101100100111100001110001111111
110001001110100000111000110011110100000010011001001100010001110
111001001011011001000110101110110000011110010010010011010001
101101010111100000100100110001011100000100111010110100101101110
111111000000101110000101011011011000111101101011001111101100010
101111000001100111011000011001001111111101001101000101000100101
111000001111011110010110110100011001110100000100111100000001
100111011000010011010000011101101011111111010000100111111101101
101101110011100101101100010000111011011000011100000001101101000
110101011110010110001111110111000100100101010011111001011111011
111111000001101111101000001000101000101111010101101110100101111
101000110111101101110000110111011001000111100100001100110010011
101111101010011011010101000001110100011001011000001110011000010
111001010100110100101100101101101011100011011110111110000001101
111110111101000001111101100111011111101100011011110110101010111
100111010100100110110000110010001001100000011001000110110011
111000011011010101000111011001101101101000010010000010101011011111
101000011111001011111101001011001001111101100001110000111110011
100100111011101100011110111000110111101101000001000111110110111
110100110011100001111111010101010001111110011010110111001110110
100110110011101000010111011101000111101100100111001110110110
1001000000010011011011101010110011110111010010000010100110
100110111011001111100011000011110000101011110110001010100100
110001001100001001001010101101100001100111100010111000000110
110111111100110000111100001101011001001010111111010011111011010
100101111100011110010110110011111101000000101011100100010001110
1000000100110000100010011010110100100010010101000011110100110011
110111110000010110100010001110000111010001000001110001110111
111100000110011001010101010111101000010011010110001010111010
100110101011101111001110110100111011110000111111111000110101101
110101100111000111110101100110011110100111001011110110011110
111111000001001111100000010111010011111100011011111111010101101
101001110001111011000010111000001000111001001001110000011101
101011101000011010110000001101000000100111101101001111000010111
101001001100010011100000100011111010011010110000100110110101111111100

```
1111110000000100111100010001101101100110000111100000011100000101
10010010101011011011111101011010100010101010001111100000
110111010000101001001100100110010010101010101110011111010110101110
101110011110001011001111100011001110111111011100010010011010110
111010001111100101111110101011100011101000001100011010101111000
11110100010011011101001100000110110001000111000000111110001111100
101010101100000010001110000100100111101010100110000111010010010 1
1110100111100111101111101101011011001110100000111101000111 1111
0001001111100001100011110000001110010111000110101100111 1001110
1001110100010011101000000001100100000100101110110110010010111
1101000001101101000001110011101001101011010001011101111111100100
110101101001100100100111001101111000100110110101110101111 0000001
1111101101101101101001111100011110110011101001001011011001101
1011111100010001101101010100111100000101010101110110 1001011000
11110000111110101110101011100100100100110001101011111000110
1101110010001010111000000111111101100011101101000100010011110001
10100000110000011110011100000110101101111010001100011101001001 00
11000101111000011001111101000001011110011011001110100011111 1
1011000100110010010011010011011111100010100001001001001100011 11
100100110110101001110001100001100011110010111110100001100111 00
100000011110111111101111110000001011110100100011010001000101100
10100010000110010000011000001001010011010001101011110101011 01
1110000111100111101010100011110000110111000001101011101001010 11
1101000110111110100001101100100110111101111111001110011100110 1
110110110100101101101010001011010000110010011000000111110010 11
11011000000011110100010010110100000011101111101110101101110010
1111000110001111011100000011110110110110110111010000100110000 01
101110100000101101111001100111101100000010001100010111100111 00
10101111110001110011010000101101101010111111110000000100110101 1
10100000100101110000000101111100000011111101000001111000011 01110
11011110011100001110000000100011110000101101111001101111111 1
1001110011100100110010011111101000000111010010011011011101 10110
1010010101010101001011100001011110000011111101001011100010111 00101
110001111100111110001110000011010111111100011010111101110110 1001
1110110101110101111000010110001100010011000110001001100110111110
110001101101111111000100011011000011111101100111111110101110 00
10001001011110001011001000011101000001111010001011110111111 0001
1111001101111100001011001101100001101110000001111000011100 1110
10000011010111000001010111110011011011001000010110110110011 10001
1111111000110011001110010101010101001100111010100100110100001 1
11110101111101110100011011111110100101011100100010110110101011 01
1111101000111100011001100111000110110011011100001000110001101 101
101100001101101101011100110111111100001010110000000011110000101
11011101011101111111000011011011010001111110000001011110000 0
111101001000010011110000101011100001111011101110111010000111
101011101001011101111110100110011111010000110000101100100111 10
111111010101000001011101111101101101110000101100011001001010 111
10001001101001100100110011010100111010010011010001111000000001010
101111101010001100000000010000001001101111111100011011000100101
```

10110110111001110010111101001101100011000001011001000011110000
11001111101101011000111100000001110001100100110000010011001110
10111010011101001111110011011111100101000111111000111011110010
11011111010111110111000011100101110001100001110001101101010001
10001011110001001111111000011111110101001001111110010111011010
10110011000100110010101011011000001110101101100000011111101001
10010101001011111000110100110011111001101111101000011111110000101
10011010111111011001100101101001110100010011000011100100111100
10100010010010111011001011001100010000011111100100101101100000
11101101000101111111111010100011100110001010101110000001110011
11100000000001001101100000000000001011111111110010111111111100
10101011010101100011010111001101100100111011000011000001110000011
10111110001011100000010111101001101101010011111100010101101001100
11100100110110001110000100011100111111110100011100110110100100111
11111010001001111100011001110100011111100000010100111101001111000
11101110110100001110100001010111011011101000110011011100101011
11111100000111101101001101100001001110100011101110001001101100011
10101110000111011111101000001011100100101001011111100110111110100
10101100100101101100101100010000010001010010110110100000110110101
11011010101001100000011000111110110001111111000100100001001001
11111010101110110111011001101100000111101101001001101001001001001
11100000110100011010001000111010011011110101100000011011011011011
10100111111100000110100011100100011100100011111010101111100000
11001010110110101001010000011011110001110000010101101100
10111111111110000111001110101011000000011000110101000000111111
11110001001110001110001101111001011010011001101010000010001000
11001010011101101101100110110100110001100100101100100111110100011
11001001100000010011001001000000111001110010111100110000111011
10000100110000011110010101100001101011010100010100110110000011
10101111110010010100000000100001001100010100101011100000001000000
10110011000101001001001011001101001011100001011100001011111011111
11000011110000011001001110010011111011001111011001111001001001
100000101010001001000010001000001101101011111110010010010010
11010001000111001011111111010110100101001001011001100110111101
10111111001100001001110000100001110000001110101100011100100010011
11110101110101001110001110011011111001101100011101000110010111
11000010010100001000001100001001101100001010110011000110011
11011111110110111100011101010011110010011100011000100001100000100
11100101011111101111010111000000111011001010001101001011101000
11011010110010011100010011110001001111011001000011001101110111
11100001000001100010011100111100011011011110000111001011001101010
11111010000111110100000011010101011111101111110101001011001010
11101001011110001011100001011101000110010010110001011100011001001
10011101100001001111001000001111010011110111101110011110111010
1111111001010011111001000010000111101001000010000010000011000
1000000000011001100101010110000010100111011010010100000000011000
10111000110000101100001000101001000010010011111000101000110011
1111101001101010101111010111001110111001110111001111001100001000
101100101110000011001110111110000000100010101100011001100011011

101101100010111011011011100101011001101111010011000110110111001
100000100001000000011000010011010001000000010110010000110011100
101010101000101100001001010000000011001011011000010010100110
100101000111111000100110011011011110011001111001000000100101
111000100000010101110001100010100101010101010101010001100100100
110011001101001100110011110000100000011000000001010000100
110010110100011011100001000010010011110101101111011101110111101
101010111001000010100111010111101100101011100101000101000010100
110010101000111111010110011000001110011001110010100110110010110
101011111101010011110000001101100000010111011001011010110000110
110001110001100110110100011011110101011110011001010110101101100
101110001011110001011100010100000010100010011101110000000010010
100111001111001111010011011010111001111110010101110000111101011
110101100001111000001011110100000010010001111001001011100111011
110011111111010100101001010010011100000101111010110010011010011
100000100001111100000111001000111001100111011101111111001001010
100000011001001001010110100110001101001000000100011111101000
111000011001001001000100111000111101100011010010111110110000001
101101111110001001110000111001100101000111000101110100101110100111
101111101011100000010010110011100000100101110110010001101011
111011100000000100111111010011010000011000110100100000000011110
100010011001100001110000100010011001000001001010010111111110000
111000010011101010010100101111101010110000010011101001100000
111010110110011010001010000011101000110100111000010111111101011
110111100011001001001110001101011100010111100011000000100011111
100110111110000101100011011001100101101100110100010011100000011
110001110110111000011000110110001011000011011000001000010110000
101111000110111111010111100000010001100110011110010111001010011
111110000111100110111100101011100110011000101010100110100000100
101000111100000001110011111011000110011100011111110110011110000111
100110110011001101100011001101110011110110011111011001111001111
100110011100001110001010001011100011000100110100011011111010001
110111111000001010011100000010011000011001110000101100011001111
111010110000110001011100011001111100011100000111100111001110
1100100001001110011110011110100110101011011110001000011111100
101000011001011010111000110000100111101111011010111011101
111000111110010101111011100110010101101100100001001011101100
110101010101000000100111111100010010001111100111110111010100011110
100101000100111000111010010010101010111101101001100110111110
111111100011011100001100110101100101001101110111100011001101000
110011110001001110010001101110100010100011010000110001011010011
111100011011110110101011101101010001001101101001011010110011011
100111110000111110110010101010011010111010100101000110111110001000
101111101000000110010110011101010010010010001110000111111101000
100001001110000110110110011111101111001110011001010000010011000001
101111101010111100011000001111101010010100111010101001111110111
110111110100000001100110011001001100000001110110100110100
111001010100010011010001001100000111001101001111000001011
111110000000011110111010000000001001011011011011010010011010100001

110010011100001110110101110110001100100101111000100011110010000
110011100100011000011011011001101001101010101010101111000000
1110001011001011000110110001100110011110000000001011110100
1111111010001011000110000110111000100011100011011010011000111110
10001010111101011110001101010000011111100101100110101000000110 0
11100000100011000010010000011110000011010011110010110101111100 00
111100110111111100111000001011000010010111000110100100100110010 0
11000000001000111010000011111100000010110100001111100001110111
1100111000000010111010011111111001001001110001101100111100000010
10110000110011001010001100100101011010000010000110110010010000 0
10010111011111011101101110100010010000010110011100101100110001 00
1111101001011010001101111011011111111100100101001011111001011110
101011001011011000011100000111000010010010011110000000100100110 0
101111000000111001011111010000011000110110101011001110001100
11000000111100000011111100011100000001011000110001100001100101 01
100111000010110000010001011010001100110001110100111110000011
1110110111100001010000100100111001111000000111011101100011001
110010110000000010010011011001011001001011111101111110101011 11
1111111100100110001011111101100000011001110000011111000000010110
1011011101000110000100110011001101111001100110011010100110101
110011011110001110001011010001100111100111001101000011100110 11
1111101010101011100111010001101101110111011101011011111010001
1000110110101100001100110001100000110010011111100011111100011101
110011110010001101100001100110000010000100100111111011100000010 1
100111001000111111101101000100111000011011111000000110010000001 0
11000001000110001101000111010001110011001001101100011111010110
10101011011110001100100111000110010101110000101111110101100
1011000110000010110111011010101010011011110011011110001101010000
1011000111000110011000111100100011100100110010010110110011101 00
1001000110000011101111101011100001100111010000011111001110010011 0
111010100111110010110011010101010111101111100111000111101001110
10111110011010000100011100001001100011001100000010000110111 0
10010001101111010000011001100100101001000111100011000011100
10011001000101111010101011100000101011100011011011000111001001 11
10110101100100011010110010000010000111011011100000111110110100 01
1010100100011000000100110001010111000101011101000001001111110100
100101000110010011001011001100110110100011100111101110111111 10
101011011100011011000110110100000000011110000010110001101011111 1
111011100011100000000111010010111000001110111000010010101101100
101101100001110001000111000001100110101000011011100100110011000 1
1111000001000000111000000001100001001010110010011010111010001 01
111100001011100011101110100011101001100110011110111101110000
1110010110111001111011101110110010111110010010101001011110000 1
10110010011011010100101110001010000010010011101011100000010110 10
110011101001011100001001010011011000110100011100100101011110 0
1100111101110011110001100110110010110111000010000101111101000 00
100100010111100001000100111100101100011111100100011011100111111
10001000001011001100011000011111010100011000000101111101001100 01
1010111101110011101101000001101101000100110100001011100000011

111100101100000101111110111101011111100100011011000110110001
101000001111000011111000110011110011011001111111101101100011110
111001100100001110110101111100111100001101111111000001000110011
111000000000110001100010101100010101000101011110100110010011110
101101010100010011110000011111101010100111000111101111011001
100000111001110011110110111111011001000001010101110010110010
111011010101101011001000110111111100100011011111101001000101100
100100111001111010010111101110000111010001101011110101101011
101100101101110010111110111111010011101111101110110110000011001
110111000010101010000001001110110000110000000101000010100010
110111101001000101001011001100110011001011000000111001111101100
111100011001101111000010110010101011101110100001000111101100100
101101010110110010110110111001101011111100101000110010010011011
111101000111110110111000110111100111100010101100000100010110000
100101110010111000010011111000100000000010100001011111000
1000000101010010010011000001101101001010101100111010000010000
110101001011110001001100100100110001111010110010011111100100011
110000111011010111110001001111111010010111111110100010110011110
101101100110111101001100111101010100111111110100111111001100111
11111000111110111101111101011110111001100111000001011111000011001
111111101011101101100000110101110110011111101111111110000011
101111111011101111111100011101011011111111001101111111110110
111010110111111000011111001001111100001100101111111111011
110000001101100011111011000001101000001011011011011001001010111
111100110110010010011111100100100110100011011100000001110000011
101110110101111110000001111110100110011011110100011100001101011
11111000101110000101111110100111101010100110010101111001011110
111100001101101011111100001011111111001001111110000111000010
10100110100100101011001011111100011010101111101101011111001001
10000111111100000100011010000111010000111011100001011001111
1000001000101100101011000000101011111000010111011010010111000
101111111110000111001100111101010011111011001111001000110110011
101010011111100111110101011110100110110111111111000101111111101
111110010000110100011001110010001101100100110001001110001011
1000111000010101101101100101100111101011001111001001111100010
1011110010011110011110000110110001100110000110110000101100111111
110101111010100000101010101010110100000110000010010111011101110
1110011101101111010111110101110111110011000111000100011110001
1011111100011011010011001111111111110000000000111101001110100100
110101001111010000010111001001100110100001101111100111110000001
1110010010111001101100110111111101010110001101000010110001010
111111110101101111100000100111101110100010010000100100000010100
101001111110000011101000011111000001111111100010000110100100010
110000010001110100111110001000001001101011110000111001100000010
101101000111110010101000011100100100100011010000000101000000111
110001110000100111101000001001101100010111110010010010001111111
1001010101010011100111010111011010100011011010011100000111100110110
111011010111110100011100110111110110111111000011100000001000
101010011100101100100111100100011110001111101101010011001011000

100100101110000010010000000001101111011110110001001010000101
110101110001001001001001101010011110001111101111010001100110 11
10110100110111011010101111110100110001110100000000010010 11000
101001100101010101101101101001010100111110010111001000011101
100110011001001010111000100110010101010110101111010000000 1111
100110111010011000111000010001110010011111100110111100001101100
100110111110111111000110000110111011001101011100000011011111000
1001111001000111110001101101010111010011001110100001101 0110
1001001100110001101010001111000110010111011001001011100000100110
110111010001111111100001010101101010010010110101011110000 1011001
11101111100110001001111110110110011011000001110000111 01000111
1000001010101011100001001000010011001001010101100100000011110
100001101111010001001001000100100100111100100101111011011001101
111100111100011111000111011000000101110011111111000010100001 0101
1000111011010001000000001010010111111100011000000111001010101101
1110111000011111011010100101001101100100101011111001011 11001111
1111111001000010111111000011100111000110001111110000011110110100
1100110001100000011011011111101111110000001101010100000110000011
1010011111000101111011101000101100010011101111110011100000011110
100011000011100111011100000101101111010011001100011010001 1000110
101111100000111111000011001111001000010110000011101011101 1001
1100111101101111101011100011010111101110101111110100010 10111100
100111100001000011010000011001110010110110101100110001 1010
100111010001111000000010100110110010111101111101100010111
111100011100111101101111100111101101011100011100000110100011 1110
111011000001011100111010011000001001101111110000110110011 00001
111101110011110110010001100011110001101011000000100111000001
1001001101010110001111011111110110101101111010111010111000 11111
110111010100111111001100100011111100011001100000010010001 10001
1110010001101011110100001100101101101000111000001110011010
1110111100100110110111011100000101110101111011110111110 10100
111011100100110000111110100011101011100011011010001110100011111 0
110010101011010101111011010111110101010000100110010011001100 0100
10001111001110100110111000011001011001100110001110001011010011
11000111001000100001101011110110001101101011000000010000010011
10010110110111110000011101110100001011101111100110100110001 0010
110101101111110111111000000011101010110000001010111100000 11111
101111101011011110001110001111011000011000111101100011 0000111
100000001100010010110110100101001110100101101011111111 01010111
101110100000110111100011011111000110011110110111110001 11011010
110000100100010111010000010111110110011001011100011101111 00000
110011011000110101111011101110011100000101101101011110011100 100
111000111101111011101011101010001110000011101101101000100000011 11
110011001111100010001111100110111111011010001111110001 10111100
110010111010010001111000010101100011011111100111100001100 11010
11101010110000111010001011111110111100011011111101001 101111 00010
1111111101001101011101001101101000010011100110111111001 11011111
111110000111100000100011110111010111110010000101110100 01100011 10
11011111000111001111001011011010110010111010101111011 0001100010

11101011010111000010010101110000101100100101000010111111000011
11111100001111011000011100000101101101000011000111101111110010
11000110110101110001101000110000011000101101100111010111100011011
111101101101101100011010111110101110101110001111011100110110111
11001111101110111000000011100010101010101011110100001101000001010101
110010101001100010101011011110010001011001011001100110011100
10110110001111000011110110100110111111101101001110000011011011111
110011100011111010101100000011110001111011010110110100001101100
11110110111000110000111000110011010111000110011110101111011110011
1100010111010001111110000011111000000011100100001111000011100
101110110111010011110011111101101001100000111010111010000010000101
10000010011001110110101100100011110110110011111100000110111110
11110000100011100111101110100011111110001101010100011000000001000
11011111010111011011111110100000111000101011001101001111001001001000
10010011110011101101111100000110000010110011001011011101011000000
11110111110111111101101011111111010101111101001011111010101010011
11000001111110000110101110111010111010001110000001111011111011
11010011010111001011011010110011000000011100011110111101111111011
1001100011010000100110010011001111001011111110011011111111001110
11011000111011001001010111000100011010010110011111011110011110111101
1000110010010011100111101111001111111011111111011110000111011001010
10001001101010111011000100110110001101010111100000110001110111
11011111010000111000001011001001010110000110111001110001100101000
101011100100010011000000111000101101001101110010010110001110100
10001100001010100010011110111001110101101011110011110011101110101110
10010110110100011001110000011101110000000010011101001001010101111111
11110000001110010111110011101011010101010101010111101110001101100011111
11110000010100111100000111001110100101011000000101011000010010100
10011000111001000110011010011011010001110010110110011101101101011101
11111011101001101111000010111111111100101011011111000100101100
11101001110001101100001111110101110101111001101110001110100110111
10010011011000011110001000110011101100101000011110100011011011
11010011111010101110101110101010101011111001001011110000110110
100110110001110001100111100010110000101111100000001110110111100
11000110010011111000000111010011011010111111111001011011101011110
11010100011111000011111100011111010101111011000111000111011100
11000101110011001110100110000100101101111010011100001100000011101
1100001110101110111100011010011001000001111111111010100110010101
110010101110100111010011011010111011110001101100000101111000101
10000111010010100100001011100101010110011001000010101001101011111
111110000011010100101101101011000101010111101000011101010010001
101110101101011001100010000101000111111000011101011000111010011010
11101001001011110001101101011001110110100101010101011100110001100111
1000010000000101010100100001010000010000001110100111110110001111
10011110100101000110001100000011001001100001010001101110011111
111101100011001001010011100101001110001011110110011011111011101011
100100001110011110001111100000001101100011100011001001100111011
111111010011101011101010111110011000110011011001111110010000011
11000111111101111000011101010010110100110011110010110011000101010

100010001000001000100100010000010111110100001111000110011001
100011111110000111000100111101011111101011010010001001101100 00
111101101110010000110000111001000001101110011111110100011111101
100111100000110001010100100100101101001010000100011110000
1100110000111111111101011100110101100101010111101110000100001111
101101010110011001100100001100101100001001001011011110110010000
100001100001111111101100110101111000010010100011111100010101 01
100100101100011001110101100001011011000001000000100011111101 00
100100111011010110010111000110010010001000011011110000100101000
111010010111010010111010010111001111000110110111101110110000
1011101101111100000110011001101010001111110001001111111111011111
101100110101101010000011011010111000001010100110110101111000000
110110011110100011010011001101000011100001001010011011111101010
1100110110111010001110001011011111111110000010100011111111110111
110111010111001010011000111001100001000001100010011000000
10000001100001011000101000011101000001000001110001100001 11
110001001010011000100010011100111011000010001110111000000 0111000
110100101010100101000110000110001000011000010011111001001 0111100
1101010000111110010001100101000000100100100101001010100110 0001
110000100110111101101101110000011101100000000111100111000 1101
11110110001110110011110110100000100011001000101010101111011 0
1110111111011101111111111011111110011111000011101001111000 11110
10101111101000011010011010001001110000000101001111000001 0
10000110100000010100000000010010101100000110001001011010010111 0
110000011100101101100101011000101000000110110000010000110110 111
10011100000101111000111010011001111011100110011100001100000 010
1111001011100001101101000001010110011010111101000000100010101 0
11011010000100111001001010111101110110101110100111001100111001 10
1010010001110000110001010101001100101010010100100001101001 11110
101100100101101111100100011010001100110001101000110000011010 00
1010000111011010010000111111111011011111110011100011100111001 11
11111001011111100101001001001011000101110011100001100000001000
1011110011100011100001000001101001001001111001011111111001011
111100010111010110000011011011000110001111101011101101000101001
111100101000111101111100001101101011111010100010010100101110110
1101000101001011001110001101011000110000010011111101101010 0
1010100110001001010100101110100101110000101001100101111110011 1
1000101101001000010101101110011000010001001100001000001011100 00
111011100101001010011110110011110110100010110010010101110101110
10001010000000001000100010001010101001101110010010000110111100
100110010110001101010111001010001110000010011011110100101000 1
101100010010110111000001101110011110000100110011011111100110
100001000101101111011011101001111000110011011111001111110010010 1
100011001011010110011010011000101100110011011111100000110011 00
111011011010000101110000010111100010010000101000101000110001 10
101111100111110011011010110111111011001100011010011111111 0000
10010101011111101111101011100011100011010100000010101101101011 00
1001010000101001110110001010000011010010100011101010111101001011
11000011100100000111110011101010010010101110100000001100101

111101101001001100011000100110010100001011100101001101111101
101111010001000110000010100000101001000101110010010000011110
110000101110010001111101101111011110111011011000000011000111110
101000110001101100110000001010011011010101011110010011101100
101000111000010111000011110011110001011000101001100001100100110
111101001110111011101100110111010011110011000110011111011010110
110011010010101111001000110010010111110000001001101101011001001
101110110011001100001010100111110110001001100011110110100101
101010101100000110110101111010000111000000110011110010101010100111
111111000101110001110000011001101001011000010011110100001000110
111000110101110111100000010011110100001111011101000000100000101011
110110000110001001001101101111011011110101111001011110001011000
110000011000100101011101111011100110001111000001111000000001100
111101111111010000000111000010010101011101000011111100011100101
100110000011100011111010010100111010101111000011011111011011010110
101000111011001111001110001000011011011110001101001000101001000100
100000100101000101001001111001010000011111010001111000001111011100
10011100000110110100001101111001110010011110000011001111101001100
110011100000010101000111101101100011110000101100110010010111
1010001110011001010000001110000010001010110000010011110111101000
110111100100110100011111001111001110110011110011011000110101100
101111110000011001010011100100011110010010111010111100100011000
100101101111011110000011001100110011000001111110001110101100111
10000000110000001011000001011001111000010110001111011010100111
100110110101101011010001001001110110011110100100100010110000001
100000001100100101110110010011100010001110011110011110000001101010
100111111100100100111000001100110001100011010011010101000011110
110011000010010100011110000010000000110110111111011111101
100001100001011100001111001110100101000010010110111101101001110
101001011110000010101100011011010010010111100011111101110110011
1010001110001000110111001011001100110110001110010110100000001101
1001001000010010011010101011101000110010100000100110101110111
11111000000011001001100110000000111100011110011110110000110010
101010101001101111000011000110001001101101101111011110110011100
111000111100001110000001100011000111011010101100010000010101001110
100100001011100011110100011001011100001100100110010110101110
110001111000001111111001101111101111000000101111100001110111111
100101111000110011110110101111011001001011000001000101100010101001
11010000010111110010110011010011100011001101111110001001011100
10011010111100100111010011101011001001101100100011000110011011111
110101110100100101001100111110111111010110001011111001000110010
11111110100011100000010010011011011011101110111111011100011111
100001011110110100000000110001011011001100110101101101101100011011
11000111100000001011001001000001100100101110111011101110100010
101000001010101110010111010001111100000011101111010000000110001
100001111111010001111011110001100101000000000010000110111110000
111111100000101011010111010001000011110000010011111000000110101
11101001010110000001111011010100011101100001101100011110111111110
101011011000110011000011100100110011110000101010110000010010001

111111000000010110001110010010100100101110100011110100011110010110010010101110111101110111110111011101001100011011001001110100010100100100000101111000101111000100101010100011101000001001110011000001011101001101110000000100010001001000111001100100101110101000000101011001111101110010110000111010001001101011101100100101100100011011000011010111010000101100000100110001000011101100011011111010111001111101001001000110110101100000000110110111111100100011001011000011101000111110110010001011100000110000110000111101110110001101100011100000101100000010111111101100001111111011001011011010110011001011001100011111100100111011100011000110000001111011001111101101000011001001001100111111100110001111111101001111110100001101011101001001001100101101100010110100010010111000010010110100000011011010001000111100011101100000110110000100000111001011000100011110100001100111010110010111101110100010111100000010111001110011100101000100101111111011011111001111111100111000010111011001110010100111001001101110010111000011111000011111000011100100111001001100010000101010100100111000111110011100001100100100100110111101000001111000111110010111011011110110101110110101011000011100000001110111111110010111100001110001001111110001110000011111000011111011111110110010011100111001011000000111000100000011110001011100011000110101011000110000011110000000010011111011011000110110011011110010110001100000010110110011011111101000100111101111101100100011100101000010010010001111100011010010111001101111001100111101000110000101011110110011000100000010111111111111101111001011100000001001110110011101110100000111000001101111111001011110000111011001011000110100001000000100011101111100011010010011001100001010010101010011111100100100001010011111100000001110111111000000110111010001010110100100101100010101111011111011011001101110100111100100101100000111110100101001111000111110001101110011101111011010011001000010010111000010000111011111111011111011111111110100000001001011000011111010100001000111100111011111111000110111111000110111111000011110111011111111011101000001001010010010110110011111101110011111100100011111110001110101011100000011111101001111101110011110001101001111001000001111100100110111111110000011111111101111101001010111001111011111110100011111010101010000101111111010000010001001011010101111011011011000101111101111101110111110111101010000101111011011101011100111111100100001110111101010100110111101011101111110111110010000100000100111111110100100101100111101100110001011101001111000101101111110010011011010011000100110000010010011100111101011111111010010101001011010110101111000011101000111111100011010101101111010110110001110010010111001011111101010011111111111001111100011001110010001010010110101010000111001110111000001110001111001010100110110101110100011010010111101000110001110001011100100110111101001110010101101101011101001100001011011011101011111111101100111111100001111100011111110010011110000111111101111101000011111101010111111100101111100001100100111111111110001111011001101110000000111000101110100010110111100100100000000111110

101010101011010011001110001011011010011011011101010010111110001
100011110001001001110011011010110110101011011011101000110000011
101001101100001101000001100111111000101101110000110110000000
111111000100001111000011000101101000110010111001101011010101
101101010111100000100100100000011000111100001110111000110000
110111010000111111100001011011110001010100110001001001110111
111111000000110001100010010010011011010110100011011010101011
111110101011110100001110111110100001011011111000010011100001
101110010011001111000010111101000011010111111100001011111110001
110110110010010111000101010101101111110100100000011110101011001101
100000001001100011111010010011000001010100000011111011001110011
100110110000101101001001000001100000100011111101000110011111111
110010010110110001101111011101101101101111111111100101101111100011
111100010010001100100101100110111001010100111011011100100111100
111101011001111001000001110100110100110010001111100011110111110
100010010110010011001010111000101101011011000100011111000011110
100000110110010011011110100101101010111101011011000110101111010111
110111101000111000100111011000101101000010010110000010001100111
111001101100110111001010010110010111011001001000001011110100110
111100011011110110100110111100000011011101001101110001010101001
110010001110001011000010010110000001100110011010011110111111000
111010000110111000000000011100011111011010110011011011001011001
100110010100001010101110110001101111111101000011111101000010011
111101100001001010100110101011100001101110111000011100110000010
110010000101100100110111000111011001101110111101001110011010001000100
111110000110110110100110110000011011110100001111010000110001110
111001100001110110010010010000100110010110110100001101101010101
111100001001010000010000111000001101001101100100011101111111
111111110010010101100110000100101011010100001111100110010111110
100011100000100110100000000101011001001100001001011000010100011
110011011110100011011000110110101111011001110101101010110001100
101110110001001011001001010101010011110011111100111011011011001
111100000011100110110111010010111110000011111110000101111111101
110100001110000111000111001001001101011100010101001101000000100
100100110110011011111010001100001101110001101101111101001110001
110111100110000011100110011000100101101001001100000010011011011
1110111110000011100111010010000101110100000110011111100000010011
100100011101101000011101101111001111100011110111001001111110000
100001010101100100101110001101011101111111100010000010001000100100
101100011000101000110111001001110000011001111100010111101111110

11101010111111001011100000111101111010010010101110011100001101
11011000100110000001010000101010001111010001001010101111000101
11111000000100011010001001101010010010110111111010011110001110
11100101111101000111110111010111101001010110001101101111000111
10000110110011111111001101111100010110000000111110110111000000000
11011010000101011011010110011111110101111110101111011101000001111
11011000111110000110111110101010110110100000111011010000111110011
11011110111000110001100111100110100011000101101110001100111011
11100111001001010011111110001111010111000101100111111001100111111
11100000110110101001100101100111010101100100101011101111110001001
11001111011010100001110000001010011111100101001100100100010110110
10001111011010110010110100001111101000101101000100101111100011
10001111011000111001111011010011110001001001001110110111101010101
11110001011000110100111000110110110100000011101110011111110000011
11011010110100111100001101100110010010001011001000001110011100
11100110110011100111001001011100101010101001111110010011110000000
11001001100110001110110011010011110000100111000110001100111111100
11000111110010111110100001100000011011000000110111001001101001
10011111111001101111111011011101100011111010000111110111010111000
10011011010111010111100001110011101001000110000111010001
111100001000011011000010011100110010111100010011000101011101011111
10001001100001101101000101111001100110111110010100111101100010101
11011111001011110010011010111000110111111011100000101110111010100
11100011110001101101101000011001001111110000011011111011100
1010011000001111001110011101101001101101111011111110011000111001
11010111000011110100110111110011100001000110001101011011101001101
11011001011001110001001100010111100110011111101110011110110100
11111100111100110101110000110010111101000101000011011001011000
10011100000101100000101011111010010110001101100101111100111110
10111000010001100011111000111100101100001111110111000111011101010
10011010101111000010110000110000010111010100001011010111100010001
11001100011000110111000110110011101101000000111111100110011101010
11100011111010000111000011011111010111111110001101100101111000
11100101011111010011111011100000110001111111010101100111110011111
11100111100111100100010011110110110011110100001011110000001110
10001001011011011111000111100011001111011010010101111100110111
1110101011111010011110010101100110111101101011111100111111101011011
11100000011010110110100110111111000111111111110110111000000011010
101100010100100111101110111111010101111011101000001011010001000
10110010011011110001100111011011111001000110000000000001101101
11111100011001110011110000111000000111001111000011010111110010010
10111111110001001010111011011010010010010110011101000010111100
1110011010010010100101110100010110000010100110000010111110001
11100010010010010011100010010110110100110010101110111100011111010
10010101101000011001010100111110011101111000011001011111100011011
11110101101110111010010000110110110001111100011110100101110001010
10111100001110010000100101011001000011110110001000001111001011
11001100001101000011111100010101011110000110111110111010111001111
11101001011010000011110100000101111000001111011010000011100100001

11101111111010001100001101110110011011001001000111010111011010
11011001001010111000010111101100010111100111011111100001011100
10000001110011010111100010011110001000110000010111011010000100
10101100100011000111011000111110001100001110011100111000110111
1100100011110001101110101110101011000000011011010000011110111101
11111010101111111101011111010000111101100011110101110000010001
10011101111000110011001010000000110010000111001111010111110100
11001111001100111101011101011001010010011011101110110100100011101
11000101010110011100110001010000001010101000000111001111100111000
10000000110000000010101101001000100000010100001001000000100
10001110011010011101100110010000110101000000111101101111011111
10100100100100010100111000100000110010101011110000101100101010100
11111101100110111110011110001010111001001010010000101100110000001
10111110100000100000111001110101110001010101110101010100010011110
10010101111110000011110100001110001011101011110110110000000110
10110010101011010101011001101100000111000011110110110111111110
10011100101001010100001000110000001110010100110001100110110110000
11111101001111000011000001101110010000110110011001001111100010011
11001111111010001101000110110111111110111000011101110011100010
11000000100010101010111000100110011100011010100111111010110111111
1010101011000011100001101100000000011000001100010000100110101111
101111000111001111000100111000101010000110000100110110000101111
11111001001111110010100011000110010101111101000011110000011110
10010100110010100100100101100001011100010101001101100111101010
10010010101010010101110001011100010010111110100011100111110100111
1001101101110101011101010001101110001110001000011011110001
10010111100010111000101111011010001010010111001111001101101100011
10100110011100000100110000101111100101101001110000001100001100101
11100010000010011100011101101010010110011100010000110001100100
1111011000010001000001011100100110000111100010011000001101100
11110101010110010110001100110001011101101100110000011010
10101001010101000100000101000100010010010111010000010000000000000
1000010101000110100000100101111110000111001101100111100100110010
1111101110001000011010101010101001110110110000010111010111001111
111101100111111011100110011000000001000011011110111111111101110
1111101100011111101001000100010110110111100011000001001011010011
1111011001111011001110100101101100101100110100001111111111001
1011101011001101101001001010111010111010100011101111011001111111
110100001110001010000110000110001111001100111001110001110110011010
10101111011010110101101000010010011010001000000011001100000111111
10011110111010100100101001010101001000011001010101000111000100111
1100100111000111011111100011111101011010010101000110011010011100
110110010011000011101101010010100111010000100101010010111010010110
10010101011011110011001100001010101010011010001000010000011100010
10011110111001110010110110100101100100110011000010111100000010011
1111100011111111011001111011110110100101101000111000110111001111001
1111011011010001010001110011111010010110001001001001110001111
100110110000100000000000010001101110100000100010101001011000111
101010100111011010100101100001100000100010111110000010000011000111

1010001110001100010010100010101000010000010101010101010000011001
1100110010110011000010110100101010001110000101001011110111011110
1110011111011010110100110110011110110101100100011001001100000010
1000101000000100010011000110011111001011111100110000001101100001
1101100101010111011101110011100000010011011111101000100101010000
1011110111001100101010001110001010111000001101110011010111110
1111001010001110010011100010011101010011100001110000101111110
1110111100110000010010000011001001000100100100100100101001110011
1110111001010000111111110000011101101011011111010101111101000110
1100101100000100001010000000100011111011110100110001101111110
1101000000100100111111011011010111010101011110000111001001100001
1111010111100110001110001110100001000010110010111110111101111101
1011000110101100100011000001000000110001101111110000000111000
1001011111100101101111101111000100110101110110101110011001000
1110110101000001111110111100000100110010001100011101011010100111
1100111101000011000111000010010001011011110010110110001110011100
1011001010010111011110110011110000110010000100101000000101000
1100011000011010101111100100100111011110110011010101001011111
1100011011010111101101101100101011110111101111101111111111011110
1011001001111011001101001100001100100011010001100100111100101010
110011111110001001110000010100011111101011101111111010101
1001001100100000110111000001001100001111101010111011010101111
1001001010000011000010000010001110011010101000001001001110
1001011011101011010011010011001010011111010000010000111111010111
1011101000100000111000100010000101001011101101011111011001011
1101010011101101001110000111001001101001100000101011001100100
10000101000100100111000001110000011000110100101110101110010110
1110010000101000001101101011010010000110110011010110111111111
1001101100101111000010001100101010100000101011100101100110010000
1001000100101010111101100110001000000100100011100100111000101
1111001111011101111011110111001111011100111110101010101110101011
10011110010000011000110100100101101001111110110110110000001010
1101100101000001010001010001110010111111100100100100101010110
1011010111111100000110011011111110000011000110101101110100100
1001010001010110010100000111100001110111000110010101001101000011
1001111100011110110111101110001100100101010100110011010000010010
1000000100011110001100011111010001111100000000000110001111111
1111010000110010001010011001100011000111101110000111000110000001
1000111100100011001010111110100001111100101101110100011110000001
1101111110110011001000111001000011100000110001000110001000110001111
1010000001001011011110110010011001011100101000111011010011001
1011011111101010000111101000111011101100100101101001100100010010
1100010111100111001010011100001011010000110010010110110101000000
1011100111011010000110001100111001111111000000100110110001100101
1011011000110111001101110000010000100111011001101111011100001111
1100011011000011001111011011101111100110110001110000100100110
1001000100010100101101101111101011101111100011101010111000010101
1001001110101100011000110111011001011010000111000010001111111
101110101011011001101110010001000011011010110001111100001010101011

111001010100000101111000011111100000101011110100110000011001000
1111000101110001101001001100110011110110100000001100011001101
111001110110110000000010011001101111010011001011110000000111
101111011011000000111100000010010000111010101110000101100011101
100111100001110010000001000111100111001011010110101000001010111
110010010111100100110001101000101011101110110110110001000
101000110010000001111110001001011000110011000101110010110110100
100000111000100101101011000101110101100000001110000000011110100
101010011000001001001000100100110101010101111000110010010110100
111110100110011011110001111100111001011000110100101100010010100
100110111001011100110101111111101101000011110001111111101011110
111011111000011101000111111111010000010000101011000101110000101
101111010010010110111000011000000110111101111101111011111
100101110110000011111101000011111110101001011111000110011111001
110100000011101000110001101111010000011001101100110010111110
100100111000100011101001001101101001001111110001010010100010101010
101011001111010010000101110000001011111101101011110011100100101
101100010011011110110111110001100001101011011101000000001001
100101101101010011001111000110010111100101010101011100100000001001
101011001110001111011000100101111011111110101101010110100000100101
111110000000110100101110100010000000100010010011010111100001
111001011111000111010001110010101001100000110010111011111110101
101011110110001000000000100100010100100000101100101110001111100
100101101011110100101010101100111100011000010010010010001011111000
101110110011001001101000101010101110011000011001101011001100
110011110110001101110010110101010101010000011101001011101011111
101010000100101010110111101011100011010000011101001101111100000
101111110001100011110001101111101001010011011100011100000011
100110111011110000011010001110110011101000111110100110010101110
100001011111000010111011010100101111101001111111101000100111100
100110100111111100100111010001111111010011110010110010110000011
101011000100011011001100110110000010101100101010101010100100
111100111101011101011100011101000010110010001000111111101110100
100011111010101011111001111101011100011111101100100011000110110
110100110011000011110000110001011001010100011000011011111010100
101011110000001110110111000100110010001011110001000110000011011
111001010101110111100000110100011101000110111100100110000110100110
110100110110011011011101001101101010111100100110111101011010101
100111100101101110010010101001011010011011011110101110011011010
100011010111010010011100000111001110101001101000001110110011001
100100111101000111011010001101101011100001010101011011111100101
111111000011111010101110000010100111101101011010001011001001
10100110010000101100011001110001000000010100111111000111111111
100000100101011011000010111111010101010011010110000110100000000111111
111100111000111101100111010010100101111010111100101101100010110
101001000011110000100000111010000011100100100110001111011101001
11111011001010011011101000101001110001110111001001010101010010
110000111100000101101000001001000111001110100110001100101010101000
10101100001111000110110110100111110000010011001101100111101110

101101000110011101000110101110100110010010010101111000101
110110001110000001010100100110111010001111001110000000010111011
111000101010011100001110010011101100110100101100001101111011100
110101110001110101010101010010111101100111000010010110111000110
101110111010110111011000100100110111101000100000001001110101111011
100011111001111110110110010011100100101000111100100100011110111
100000100011111000100100111011110110101001110001101111100011001
100011001001101010011000101011000001100111000110011100000000
110101011000000110011010001111111111010001110011001001111000
111110110111110101111010010010101110101110000011110101010010011
111111111101001111111110101011111000011111110011111101100011111
110111111101111101100110010110110000000110010110110010
101101101010001100100100011011011011101001100010000100101011110
111000001001110000010000011000001101001111111011111110011100
111010110111111110110011100011011110010011111100011100111000000
110011011111001101111100011011110000011000110111111111011011111
111010001011110000111000111010101011110011101100011111101001
111111101000110000111110000100111000000110011110100001000011110
1101110010011001111111110100110100110101010101001011100011010
1011011101011101111000101111000011000010111100101111000010111
110010101110100111000111111000100111111101001011111100001111
111111011010101000011101000010000110000011111110110111110100
110100110000010011001010100100111110001100100100101111001011
101000100011110110111011000000011101110111010111011010100011010
10111111101111101111110011011111111001011011001011000000000101010
100111111000011111011011111101011011111101011011111100001111111
101010001010110000010000111100001001100110000011111000000111100
110100111000101010100011011110100011001001010101011110101011001
1001001110110110110111101011011100111110001101111110101011011111100
101011001111111010001110101101100101110100110000111000111101
110001111011101001111111110101100110000011110111100000110000
100101000111111001011001010011110100100011111100010111111001
10010101011011001110100011100010111010010111100001011111000001
100111011000010100011110000001110011010111010101111110000100111
111100010111011100010100100100101010101111111100000110010010101
11110011111110011100011011110100100011011100010111001111110010
11101000010000011010001110011100111011111100110101010001011
1011101000101110101010101100110100110001001111001010101010011101
1111111101010011001110001111100000111010111101110001100100011111
1110111001111100000011111100000100110100100010010100101111110100
10100011101000100011010000000111010001001001100100011111000000101
11110000001000110100000000101110100101101100000001001011010111
11110111110110011100000001011110110001001111111100100011111100
11000001111110011111101101001101101100011010001011110000011000
11110000011111001100011010110110001111111111110001000001100100
10111101100001001011001101000111000100110000011000101110100100100
1100100011101000100111110101011110111001110001000100100100110001
111101001001010011110000100101000101010010100011101000110000110
11100101111001101101100011000000101011111011110010010101011000110

101101000010111111101000000110111010001000110100010110001101001
1110100010001000100000100110100011101111000011011110000110111
10001001100110111110111010111001100100101110111001110101100001
1111011000111001110110001011111010111011110000100001011100000111
1111000110111100010111011111000110100000110010100000010011001
1000000000110110000101111000011011111111000011100010010010111
1101110100110101001111100111001101101100011100010101000111111011
111110001001011100010100111001001111101111000010111011101001001
1111011101010001110011001011000110001111101000011111010001011111
100010111110110001000110000100110011000001111101101111110110000
110011111100111111011101111110000011111000011011000001111111001
1001100010010101010010010011110110111001110000101011111101100
101111110101100110000010010101101000110010010110010100111101
1111001100011000111110101001110000110111110001101110000000101101
11100110111100100101010101101100110100000101100000010001101001110
1000001010100111001000111110111010110111100010111010011100100111
1111110010000011101011001111001110110100010110001101100001110
111000110011110100111111100011101110100010110011110101011000000
11001111111011111101010111010001101111101111101101001101110000
110111000110111011111101011100110001010101111101101101101011111
1111110011000110111011101110000110001110000110001101000011000
111101010001001000111100000111100001001001100100110110110100010
11011101011010001011001001001001100000110110110101000101111000
101000010010110111101110100101011100110100110010110110011011001
101010001101000001001111110100111110111010000110001101100111011010
10001110110100111001111000100100100000010111110111011010101011101
100001111110000011100011011011011010101100011001001100001110001
101010011011110100111110101111100101110011100000101100101110000000
101101101101001000110100010110011101011111001000001011110111110010
100111011111011111101000101111001000000011100100101010110001
111010011101011011111010100010010011111101101111110011100101010
1010000100110010110110011001110000111101110101000000101011000000
1110111000001101100000110111110101011111111001111101111000000011111
1110111100111010100011010000110100110000011010111000101100000000
111110000110110111011001110110110110000111110000110111111000111001
1011011100111101011011101001001001100001011100000011011010110110
111100100100110101110111010111110001011110010010011001011110100
1111010000011000010001001110110010001101100100101100011100011
11101110101100011110111111100111110010010011111110000011100100010001
111000101001110001010110100010010110000111000101001110100011111
1101110111010000111111100000011000110110000011011010110011011111
110011110000110110110101000110100101010100110001110000010111110
111110000110111111010111111001111011000011111000110000101111111001
100010111100001011011110100101100001110010010100110000100100111
1111100101111010000010111110001001111111000000010100100001010
101110100101101010101100111101100001101101000010101110100001000011
10101100011000011101111001110011011000000110111000100100001111101
1010010111000001111101001101111011111100011111100000100111101000
111101110010001111010101100001001110001001010010111110011011111

111100001001001101100110111101011000100110011110111001100111 0
101100110010010101010110001101101111001111100011000010111101
101000111101101011010110100100101110000010001001100110101000 1110
111111110010001100101000011010100101100100010100110010000101 0111
111011101111001001101100010111111011111001011110000100111110 10
100110011001001001001101001111100001001100101101101111010111 11
100111110000011101110010010110111101001001101111010001000100 1
1110110101010010110110001111011010100110011010011110111 00
100111000001101111001010111000010111011010000110001110011001 11
110111000110111010100011010101011100110000100100110100100010 011
101101101110100010111000001111010111011111010001111110001110 1000
101001100001101100010011011011010000110110001100100001000010 010
100001101111010010111101110010100111000000011011011000010000 11
111011001001011001101111000111100001000011111111001110111000 010
110011110111010110101111101011101111010010010011111101110000 010
101001111111000111111010000001100100111110000000001001000101 01
111111010111001101000001101111110010001100001111110110001 00
111111010001011001001001010111110111000010110001110001100
111110100111101111010011011110001101110000000110110011110 00
110011110001101110110000100011010111011111100110110101100100 01
110110010110100001111011100110011000111110011101111001111110 1101
101001110000101011000011000001011001001100111110001100101010 1
100111001111010111011010110010110010001100111101111010111100 001
101100100100010110100010111001111101001101011101101011100000 0011
100110010110010101110000100001011101001011001011111000011011 0
110011110010111110101100111100010101010111101110110111110100 110
100110001001111110000110010111100000011000110100101001100010 0
111010001111010111101111010000011101101110111010000110101111 0
101111010111111010000110110100111111100001011011100000011001 1110
111110001100110100000101101101000010111100010111111010101010 001
100001010101111111011001011001111110000111011110101001011110 10
110100011110000011111001110011110100011000001110101100100101 100
110011010111010000011100011000011000100011011110100011100 11
110011100111001011110100001110110110001011101011110100101001 10
101010111001110000010111010110001101000110000001100111100001 110
110111110111101110000010001011100000001100011011011111100011 101
110011000111111010111001010101111010011011111110100011110000 0111
101101101100110000000010100000101011011010110010011011000010 01
100010000100001001000011001101100100110011000110011001110010 00
100111000110110100111001001010011000110110110000010110001100 1010
100111000100111000101001001001011001001110101001001010000100 11
110111101010110000100111101101111011001101110101111011110001 110
110001010000101000100010110001111010100111100100101100010010 1111
100101101111000001110101100000100110001110000001110101111000 10
101110010101000110011010001110001100011101001011101011001001 0110
110011110101111111101101001010010110000011001111011001010010 1110
110101001111010100111101010011110010000000100011110100111001 100
111111100011010110001011100000100100111000110011100000010001
111111000110010010000011011001110100111000110111001111001001 0001

100111010111001110000011110110010110110110010110111001101110
100011001001100110110011011110000101100100111100000100100 01000
100111011100010010000101100010000010100001000001010000101 0011101
100100101101111010100101001000100001110010111101111110110 1111101
110000011001001110011010001110011100101111100001001010000 110101
111001101000010110010101011010001010101010101011101110111
111010010000011000010110001011110110111001011110001000100 0100010
110100001100110010011110101111011001100101101110100110111 0100110
110111011101110100011010101101111000100000011100010011000 010000
111011111011101110001100101001101111011111101111011111001 0000110
111100100001000000011000011000101000010001010010101011001 101100
100011001110101001001011010110111011111011000011011011001 11
110110101000110000101011001110000100100000001000111111000 0111101
101010101000101010111001100000111111101110000011111111101
111001101101101101000110001110001011110001011101001011110 10011
111001001011110101111100101000100101010011101110010010110 011011
111111000100111000100111101010010000101010100100011111110 1011
111101110011001110010111001101101111011000111111111000011 1010
110101100011100011011011011001100101011110110111100011011 110111
100110000111011010100001011110110101000000000100110110110 101101
100000111010111100101100101011000000100000111010011110110 00101
110010001011101100101010010111101111111100100100011011010 0011100
100010011110011011100000100000101101000110110011010111000 111001
101100100101000000111000011000100111001101100010001011011 0100001
101001111110100111100001110110001111011000111101100011111 1101001
100000011000011001001111111000111101100011110000111110100 11110
111111001101111101011011111111100001100101010101101001101 011110
110010101110111110110011000001100010011110000101010101111 1010
100001000000100011011000101001001101100010010110011001110 1110110
100101010010110111111011010001001100010011101111000000001 000011
100101111101011011001100011111101011100100100001111100011 101
110000010100100100110001000100101010101111011111000001011 100100
100101010001010110011001110101000100101010111011110111110 010100
100110000110111000000010100010001000111101001010000010111 00
101110011011011110101001110000010101011001100010010100010 1001
100011111000111111101101101011011101111001010010110010100 00010
111000000011000100111000101110000000100111011000010010100 1101101
100111011000101100101000010000100000110111010001000110000 1100111
100001110111100011011111010100011110001011110111011101110 101
111110011100100010011010010110110101111000110100100011100 010011
101100001011001010110011010000100101100000100011010010100 0001
111111011111101110101110011100000001001010100000010111101 000010
100100001101100110011011001000010000010000101001100101111 000110
101111001100101000111001010001000001001100100101101101110 00110
101110000100101100110111010101010001001101001010100001101 00000
101111001100000100100110111010000101000010100100000101000 0110011
110000100100110110000010100000111111011110001101010000001 1100101
111001000011100101011100000010101110000010000011000001110 01010
101110001100100101000001100001100110000000010100011101101 0000111

100111100000001001110010110000111010011111011011010000110001101
10111001110100011001001011011001100010000010001110000010010010
10000100011011110100010100111001011010011001110011110111110111
10100011000100100001001000001100000111000100000010011100111101
10010100001010101010000100000100001111010001101100010001110101
10110101111000110010110000011101101111110010011101111110110011
110100001001110001110011111111001011101100011100001100000000
111010011011011110110000010111011000110100010101010101001101001
110011110111111110000001011100001101100000110000111100000111110
100111101100101011000100001100010011110000011101100111101100111
101110000101111011110010010001010110110011110111001000110100010
111000101001011010011011001010101011111111011110101010000011100
100000010000010111100000111011111101101111001101101011100111110
11101110100011011110000100101111100011111111000000011101110100
100110111101000100111000100111100100000101000010011101100101100
101001011010001010111010000111010000110000100111000010110011
11010111101100111011001000111001101111110010110110010010000010000
100111000001111110100110011100111110110011111110000100101010
100110110001110010010110111111101110001100100001100111100010110
1110110101110110100010110011110101000010011100011101101000011001
110010110110111010011100001101010111100111011100001011001110111
11111010010101000011100111110101100100100011000110010110010
10110011011000101000000001101111101100010110001100010001111000
11001111101101011010000000010010011101100000011001000011010001111
100111011001100110001110001001110000000011100011001101011001
101111011001000100011001101011011010000110001000011001000011
100010001110011100111001110110110010001110001101111010000100101
110100011111010101010001100011011100000011000101110100010100
11010111000000110001101111111001100110111110011101111100001100100111
11011010111010011100100111011101010010100111000111010000110011
101010001110010100101100000100011100001111111110000110010111101
11000111101000000010001100101110000101101110010110000111100111
100110101100010111001001100111111010001010101011110110101110110
110011111100000111000001110000000111000110111110001011001101
10111011011010000110001100000111101001101110010110011011001101
101111010011111101000110101110000101001100100111011000110111111
110010111111100111110101101101100110011001101111011000000101000
10000000011111000000111110000011011011010000111000000100110011001
101100101010011110110001001000111011000100101010011000110011101
101011100011001011100111111101010010100101001011011001110000000
111000110011001000011000111010000000100000101100111000011001101
11100111101110011110110011110111110010111110110111011111110100111
101000111011010010110111001011001001100100111111011100011001010
100000010010110010110100010110000100011101001101000001110110
1001110000011110001110011111101001001101111010010001110111111
1000011110000111111100001001111101010111111100101010100110101
1011111100011101000000010100000111111010110000110011001100101101
1101111011110001011110011110111110001100001001010111110000000
1100110001101110010010011100111100001101100110101101010000111100

100111000111101001010101011000101111110101111010001110111110
111010011011000000010101110110010001011001110000110011110001001
101100000110100000100111110100100110110101000001000000100001000
101000110111011100010001110111010011011100110110011000001110100
110100011001100101011001100001110000010010011001100001100010011
111100011100000100111101001110000000011000111101110000101001111
110010110110101011111110110000111001001110010000010111101011001
10101010010010111110000000010010001001010000101110011100000
100101101011011100100101111111100011111001000100101000101111011
11111111000111101111001101100110111111010010110111110001111
100111100000000111010001100101000110001101111000001110110011111
111010000100111010001001011100001101100001110000111100011001011
1011001011110011111100000011101011111000111100001100111100010011
100010001011110111111000110000000111101001101011100100000101001
111001110110011100100111101000111111101111110000111100111110001
101000000101010010011000001111101111010001111111001110011111001
110110101110000010010101001010101000100111111111010011101101
110010000101110000111000111111101011100111011101100111001011111
101010110001111101111111011000110110000100101011111100111001111
1011101011101100110101110001111001001011000001101000111010100110
111100100000111000001111110000000110111100111100000000110001001
100011001011000001101111101100100100001011111000011111110101110
10001110001110100010010111000011010101110011101110101110111110110
11110101011101001011110100100110011111010011001111011110000111011
1101100100011111100011111111010100011010101010101100011000111000
11100000010010001001000011101001101000010010011111000110100011
111111110000111111100100010000010001001010010011110001001100000
111100111111100111111110011100011110000100110100011000110100110011
10111110000111111001100000101011010010111001001100101011100001
100111110100100111100100110111111000110001001100011111111000011
110011100110011100111111010001101111000011001011101000111100000
11101010011111101001110011001111111001000011000110011001110000
111000000111110010111101000011100000111100010000110111100
110010101111110000111100001100101011111010101111111101011111
101010101110011011100001101111101111101001000111000011110000001
110011010011010111011101011111101101010000100011110000101001011
1110001010110000100110001010111100101011110111011110001110001111
10111111010000100000001001001000111000010111011001001101100010
111000001100011101100111011011101001110011101001010110000010
10011111011000000011101100000000110000010111100001111001000011
1110111000000111100000111101101011111011011110100001101000100100
1001001011001001000110111110101101111101010011111100001111111
110010110111011100001000111101111000110100101110011100100111011010
100101000110000101111011111111010001100101111110100101101101001
101100110111101000110011101110010010101100011101011001101101011
111110100101111111000011100010011110110001111111111011111011011
11101001111111101001111110101101111100001100101011111110100101011
1001010100100001111010000000011001001110110111110010111001110001
111101100100010001111100011011100011010110011001001000110000

110110010110011110100011001111111100110011111100010101001 1011
111111110000111011000111111100011110110001111000111111010 00101
101000010010001111110111111011001001010111110010101111111 0110
110110001110001110010001111100111100110011011101100001110 0010
100101000111010000111101111010001001111101100011110110100 10111
100110110101110011000001101110011011100010000000100111110 10010
111100101111111111110011111111000010100101101111001001101 110100
111111100110011111100001110100011111100001111111001000010 1111
111101010001100100100101011100011101101111001111000011111 1111000
110111101100011011010000000100011100111111001010011110110 00101
101011011010011011111011001000101101100111111010111010101 11000011
111101101101101011000010011101001011010111110000010011111 0001
101001010011011000010101111000101111101111011101001100000 110110100
101111010001100011001000101001111111001001111100000111001 01110
111100011001100111000011110011110000111111110110110111110 1001
111110011110010000001111100110110100011100001000011101001 1100111
100000001111011000100011010101100011101100110010011000001 0101
110010011001110011111110001101001000000101101001000100100 10
100000011010100100101110101110111101010000100100111011111 111010
111000010101010001111111110110100101101011000010011011000 001111
111101101001100000101001110110010010101111110100110101100 001010
111000001110010010111100000111101111111011010001101111100 00110
111001110111101110000010110111100001000111000000011100000 11011
111000000110111001010101010010111101000111010010010100111 1111000
100000101001010000100110100111101110011011010000000010000 1000011
110110010011101011100010001111000111100100011101111000110 10111
101010100011000100000100000000100010011011111110100011110 0111001
111100100110100110100001101011100100111111111111100000001 01110
111110100011110010110000010101010111110010110010001101001 001000
100111000001110001110011100001010001110000000011100001001 0
101111010001001101101001110101000000101001100011010110010 10
100001111110101011001111000001000111101000000001110100001 00111
110101111110000100011110001000110001101011101010010010100 0101111
111011010100110110011111101111110010110101000100001000000 10010011
111000000101110000111101111101010001111110001011011000010 0101
100010110110110001011110101111011000000101101101101011001 101011
110011001110100011010011011011000110011101011111011110011 11011
101111000101000010000010110010011011000011010100100101111 101101
110011101001100100100101011010001011001100010101010111100 0001000
100111001111011110001101101100100011000001111010000001110
100100010101010001110111001110111001001100011101110110001 1011110
100001110010010001001010110001101001011010110011111101010 111110
100001000111011000000011110001111011100000011001111011100 01111
110110011001111111110011011111110000100011001011011001011 0110
101010111100100101000110101000010011110001101101101111110 01100
100101111001000000100111000111111000011001010010011000111 1110
110111111110011111100000011100010111100010111010010111001 1001010
111111110001100011000100110010000001111001100011110001001 001111
111000000000011110000000110111100100011111111110001101111 1000010010

111110111000111010001101110110100110100111100000111111100000
110111100011000011101111110100011011011010001111100000100110110
111101111101101011011101000111001110111010010110100010010011001
100011010110001110100010101110010010110101110101100110010011101
100110100001001111000010000110100010010011001110101001001011001
111110100001111110010011000111111010011011110000101110110110011
110101001110111111100011111111110101100111100001000011000000001
110110100010011001110011111000011110111010000111101111110010110
100011000001111100100110001111101000100000111010001000011001001
110110000001111101011110111001110101111110000110110101001
111001011010100010101010111001011100010010101111110011101001100
101001101101101000001100011010100010100001010001110000010011011
101110000010110001101011111111000110111011001001101011100110111
111000011000100001001001010111010000111010010111001000110110010
101010000011111000110011011010001101101101011101110100011010001
111000001010111110011100101101101010101111110100011110110001
101001000110000010010111000011011111100100011011010101010111101
110110110000111110110101111111011100001111110000111100000110011111
110000101001110101100000110111111101110001100100100001110000011
111111010110011000110111000110000101011111000110111110100000111
111011100010111000110111100010111001001101111101111010111100
111011000101011000111111001001010100100110101010101100110010001
110100100000110100101101000011011100100000100101101010100001
111111101101111111010101100011001110011101101110110010001100101101
110011011011110100000010110101011011001111110111001111110111010001
100111001110111111101100011100100111011001111011111001101101110
100111011100111001000000010111010001110111000011011111110001001
100110111101111110011110110100111101100100001111100000110000101
110110101011110100111011001000010111000011000011000110000001111
111100010011000010110011110100111000110100110000010011010111110
101110111001101011101101100100000101101111001001110100011011
111001001100010000111101010110110000110111101011011010000101101
111011101111100100100110110111011111000011110010010100101111100
111100011110011100110011111110100001011111111000011110111011001101
101001101100100110101111110011111100011111100001010101011100
110101001101100101101000010110010011001110011001001111010100
110010111111110100101010001010011010011010101111100110011101010
101100011001101011011010000100011100010011010101111110100111
101110101100011001101100000110101111001000111110111000000111000010
111001110000111100001101101101001001101011010101101010100001110
110010001110110000110111101110111100001100110000011111011101
111100011111111000001011011010011011011001001011101101100000011100
111101111101110101110011100111100010111000011011110000100110011
101001100011011110100101111011100001100001000110110010111111010
111000100110010011000101110011000010010110111111101000011100000
110001011010101000101010010110111011000101011111010011100110011
110000101011100001011011010101111111101010011011010010110110101010
100101011110110100001010100011111101010111101111111101000010001111
111000000101101101011100111111110101110101110101110110100000110110100

```
10101101100110110001100100011110101111000110000111101000101110
0110001111001001101011011100001110101111011000101011011000011101
110110011110010001100011110001011111000001101011000010011001001
1111100010111110100110010011110000011011110001011101101001
1110110001001101011100011001110011000011010101000010011001100
100000011100001101100111100000011100111000001111010100100011100
10100011001111000011000111100000110011110111011111100110010111
11110001111101101001100011101101111011001000111000100110001101
110101011001010111000011000111110011101100000101011111000010000
111000110100111111010010110100011011010010101001100011111
11100111100010010111110000001111111010001100100011110101111110111
1001101000100001010101000111001001100001011010101110101010100
11000001101011010001011011111101111100101110101011011001011101
1001111101100000011011001111100001111111001010110001111100001
10010000011001001011011101111001001101011110011110000101001001
11110000000011101110100000001011100010101000110001100100001111
11011010101100111101101111101001101110100000111110110110110010
11011011111101000100110010001100011101010110001100111001110011
101000000001111111111111111011111100011110111001001100000000011
101101100011100101100111111100001111100100110001011011010
101011100100010001001110010001010100100100100000000000000000
100000100110000001000010
Total size in bits: 17236545 bits (2154568 bytes)

Process finished with exit code 0
```