

0 = 11111111111111,11101111111111,111111111011111
1 = 11101111111111,111110110111111,1111111111010111
2 = 11111111111111,11110111111111,11111110111111
3 = 11101111111111,11111101111111,1111111110110111
4 = 11111111111111,11110111111111,111111111011111
5 = 11111111111111,11111110111111,1111011111101111
6 = 11111111111111,111101111110111,111111011011111
7 = 11111101111111,111111111011011,111010111011111
8 = 11111101111111,111010111011111,1111111111001011
9 = 11111101111111,111011111011111,1111111111011011
A = 11111101111111,111010111110111,11111111110101011
B = 11111011101111,111011111101101,11111010011101111
C = 11111011101111,111011111101101,111110110100111011
D = 11101111111111,111111101110111,1111110110111011
E = 11111101111111,111111111011011,11110011011110111
F = 11111011101111,111011111101101,11110110111100111
G = 11101101111111,111111110010110,11110110111001111
H = 11101111111111,11111011101111,11111101111011
I = 11101111111111,111111011101101,111111101110111
J = 11011101111111,111111110110101,1111100101101111
K = 11101101111111,111111110101101,11111001101101011
L = 11101101111111,111111110101101,11111000110110101
M = 11101101111111,11111111010011011,11111000110110101
N = 11111011011111,111011111101011,11111010111001101
O = 11011110111111,111110111110101,1111101110111101
P = 11011110111111,111110111110101,11111110100111011

Q = 11101101111111,11111111101001011,111110001101101011
R = 11110110111111,111111011110010111,111110010100101101
S = 11111011011111,11101111111011011,11111010010110101
T = 11101110111111,11111011111011011,111110110010011101
U = 11101101111111,11111111100101101,111110001110110101
V = 11101111111011,11111101001110111,111110010110010101
W = 11111011011111,1111011101111001011,111110010100101101
X = 11110111011011,1111101110100010101,111011000101110010
Y = 11101111011111,111110111110010111,111101110100011101
Z = 11101111110111,111111010011110111,1111011011100010101
a = 11101111110111,111111010011110111,111110101110001001
b = 11110111011101,11111011110100011011,111100100100111010
c = 11110111011011,11110110010011110101,11111101011100001
d = 11101111011111,111111001111010111,11110110101000101
e = 11111011101111,111101111011101001,111111001011000101
f = 11110111011011,1111001011101101001,11111110010100011
g = 11111011101101,1111010011110111001,11111011100010010
h = 11110111011011,11111101001100101101,111110010110101
i = 11111011101111,1111011111110011011,1111110010100101
j = 11111101101111,1111101110111001011,1111101001010001
k = 11110111011011,1111001011101101001,1111111010010001
l = 11110111011101,11111101001100101101,111110010100101
m = 11110111011011,11111101001100101101,111110110100010
n = 11110111101101,111011101011111011,11111011100100101
o = 11110111011011,11111011010111100101,111110100110010

p = 11101111101101,111111010001110110111,111110011100101001
q = 11110111011011,1111110100110010110111,1111100101001000
r = 11110111011011,1111110100110010110111,111110010110000
s = 11110111011011,1111110100010010110111,111110010110000
t = 11110111011011,1111110100110010110111,111110010100101
u = 11110111011011,1111110100110010110111,111110010100000
v = 11110111011011,1111110100010010110111,111110010110000
w = 11110111011011,1111110100110010110111,111110100101001
x = 11110111011011,1111110100110010110111,111110101100001
y = 11111011101111,111101111111011011,1111110010110101
z = 11110111011011,1111110100110010110111,111110110100001
10 = 11110111011011,1111110100110010110111,11111010010010000
11 = 11110111011011,1111110100110010110111,111110110000100
12 = 11110111101101,1111011010111111011,11111011001100101
13 = 11110111011011,1111110100110010110111,11110110100000
14 = 11110111011011,1111110100110010110111,111110010100100
15 = 11110111011011,1111110100110000110111,1111100110000100
16 = 11110111011011,1111110100110010110111,1111110010000100
17 = 11110111011011,1111110100110010110111,1111110010100000
18 = 11110110111011,111111000110100101001111,111110100100100
19 = 11110111011101,1111101011100010110111,1111110010011101
1A = 11110110111011,111111010100011010010111,1111110000100100
1B = 11110110110101,1111101010011000101100111,11111001100100
1C = 11110110111011,111111000100101101001111,111110100100100
1D = 11110111011101,11111100101110110100111,11111010110000100

1E = 11110111011101,111110101100001110110111,111110010011101000
1F = 11110101110110,111111001100101101001111,111110100101000
1G = 11110110111011,111110101000110100101111,1111100101001000
1H = 11110110111011,111101110100100101001111,1111100101001000
1I = 11110110111011,111110100011010010110111,111111000001001000
1J = 11110110111011,11111001110010100101111,11111010010010001000
1K = 11110110111011,1111100101000110100101111,111110100001001000
1L = 11110110111011,1111110010100101000110111,11111010010010001000
1M = 11111011101111,1111011111111001011,11110101101001110111
1N = 11101110101101,11111011010100100011001111,111110001000101000
1O = 1111010111001101,11111100100101000110001010111,1111011000010100000
1P = 1111010111001101,111110010010100011000101111,1111100001010001000
1Q = 11110110111011,1111011100110100101001111,11111001010010001000
1R = 1111010111001101,1111011000011001001010111,1111011000101000000
1S = 11101101111101,111111101001111011,111101011101110010111
1T = 11110110111110,11111110110010111011,1111001101011100101111
1U = 11110110111011,111111001110010100101111,111110101000100100100
1V = 1111010111001101,1111100100101000110001010111,1111011000010100000
1W = 11101011011011,111101100101000110001010111,1111101000100001000
1X = 11101101101011,111101000110001100110010111,11111010001001000000
1Y = 11111011101111,11101101011111001111,1111111100100101010011
1Z = 11111011101111,11101101011111001111,11111111100101010011
1a = 11110111011011,11111101001100101100111,1111101001010010000
1b = 11101111101101,111101100011101110111,111110101110100101001
1c = 11110111011101,1111110100110010110111,111110101100001000100

1d = 11011111111011,11111100101111111011,111111011001110111
1e = 11110111011011,111110100101101101001111,11111010101000001001
1f = 11111011011101,111110101001001100010101111,11111001000101001000
1g = 11110111011101,1111110100110010110111,11111010010100010001001
1h = 11110111011101,1111110100110010110111,11110101010000100001001
1i = 11110110111011,1111101000100101101001111,111101010010010001000
1j = 11110101101101,111110100011000101010111,11110011000010100001000
1k = 11110110111011,1111101011100101001001111,1111010010010001000
1l = 11110111011101,11111101001100101100111,111110001100010010101
1m = 1111010111001101,111110010010100101000110111,1111100001010001000
1n = 11110111011101,11111101001100101100111,11111001100010010100100
1o = 11110111011101,1111110100110010110111,111011100101001001000
1p = 1111010111001101,1111100110010100101000110111,1111010001010001000
1q = 11110111101110,1111110100011001010110111,1111100100101001000
1r = 11110111011101,1111110100110010110111,111110010100100101000
1s = 11110111011101,111110101111001011011,111111010010111100111
1t = 11101101111110,111111100011010111011,1111010111100110010111
1u = 11110111011101,1111110100110010110111,1111110010100000101000
1v = 11111011101111,11111011101110100111,1111110100100001110111
1w = 11101101111111,111111111010111011,11111010111011001111
1x = 11101011101100,11111100110001010010100111,111110010100100010000
1y = 11110101110110,111101100110001010100111,111110001010001001000
1z = 11110111011101,1111110100110010110111,1111100101001001001100
20 = 11101110101101,111111001101000110001010111,1111010100100000
21 = 11110111011101,11111010010101101001111,111110101110000010101