

0 = 1111111111111111,1110111111111111,1111111101111111  
1 = 1111101111111111,1101111110111111,11111111111101011  
2 = 1101111111111111,1111101101111111,11111111110110111  
3 = 1111111111111111,1111011111111111,11111111101111111  
4 = 1111111111111111,1111011111111111,1111111110110111111  
5 = 1111111111111111,1111101111111111,11111111110111111  
6 = 1111111111111111,1110110111111111,11111111011011111  
7 = 1111011111111111,11111110111110111,1101111111010111111  
8 = 1111011011111111,110111111011011111,111111111101101011  
9 = 1101111111110111,111110111011011111,1111111001110110111  
A = 1111101111111111,1101111111011111,11111111011110111  
B = 1111101111111111,111011111011110111,11111111101010111  
C = 1111101111011111,1101011011111111,111111110111010111  
D = 1111011110111111,111011111100111011,1111110011110101111  
E = 1111011011111111,11111111110101011,111101001010110111111  
F = 1111011111111111,110111111001111111,111111101110101111  
G = 1101111110111111,111110010111111111,111111110111010111  
H = 1101111110111111,111110101111110111,1111111001101011111  
I = 1110111011111111,11111111101011011,1111010011101011111  
J = 1110111011111111,111111111100101011,111101001010110011111  
K = 1101111111111111,1111110101101111,11111111101010111  
L = 1110111011111111,111111111100101011,11110100101011011111  
M = 1110111011111111,11111111110101011,111101001011100111111  
N = 1101111111011111,11111010111110111,11111101011000101111  
O = 1101111111101111,111111010110011111,11101001111101010111  
P = 1101101101111111,111111111100101011,11111000100111010011111

Q = 1101101101111111,1111111111001011011,111110101001110110011111  
R = 1101101101111111,111110111111010011011,111110010001110110101111  
S = 1101101111101111,111110111000101101111,111110001011110010101111  
T = 1101101111111111,1111111110010111011,111110001110110101111  
U = 11101101111101111,111111011100010110111,111110010111011001010111  
V = 1101101111101111,11111011100010110111,1111101001011100101001111  
W = 1111111111111111,1110111111011111,11111110111101111  
X = 1111101101111111,111101111111011011,111101101001111011111  
Y = 1101101111101111,11111011100010110111,111110101001110010101111  
Z = 11111011101110111,111110111011001010001111,111101100010111100111011  
a = 1101111111011111,1111111110111101011,1111100101111111011  
b = 1111101111011111,1111011101111101011,11111010110010011101111  
c = 1111011111011011,11110101110100101100111,11110110010010111000111111  
d = 1111011110111011,111101000111011001010111,1111011001000101110011111  
e = 1111011011111011,11111011101001111011,111101011001110101001111  
f = 111011111011011,1111010111010010110011,11110100100011101011111  
g = 111011101110111,1111110101101001100111,11110100110010111000101111  
h = 111110111011111,1111101111110100111,111101010010111011111  
i = 1110110111111011,111111101011010111,11111010110011100101111  
j = 1101101111111011,11111011101001011111,11111011100110110010111  
k = 111011111011011,1111011100010111001111,1111011011100010110111  
l = 11101111011011,1111110110010111001011,11110010101101000110111  
m = 11101111011011,11111010111010010110011,1111011001001110100011111  
n = 11111011011011,111110101011100010111,1111100011001000111010111  
o = 11111011101011,111110100111011000111,111110101100010010100011111

p = 11111011110111011,111101110010011100101111,111111010011010001001110111  
q = 11111011110111011,111111001011101001101011,11111011001000010100110011111  
r = 11111011110111011,111111001011101001101011,111110010011000100011010011111  
s = 1110111011110111,11111100101101011100111,11111010100110000100100011111  
t = 1111101011011011,111111100111010011001011,11111000110000101010010011111  
u = 1111110111011111,1111101101001110001111,11111011000110010001001010111  
v = 1111101111011011,111111001011101001101011,111110110011000100001010011111  
w = 1111011101110111,111111010011010001101011,11111010110010000110100011111  
x = 1111101111011101,11111010011001001101011,1111101100110001001000101111  
y = 1111101110101110,111111001011000110010011,111101100110010100011010010111  
z = 1111011101111111,111111111101011011,11111010110110110011111  
10 = 1111011111011101,1111100010111011011011,11110111011000101001011111  
11 = 1110110111110111,1111110111000101101111,11111010010011100101001111  
12 = 1111101111011101,1111011011101000100111011,11111010100100111100101111  
13 = 1111101111011101,1111101010011010010011111,1111100101000011000100100101111  
14 = 1111101111011101,111111000100101001011011,1111100011010000010011001101111  
15 = 1111101111011101,11111100101101001101011,1111101100100001001010011111  
16 = 1111101101101110,1111101010011000110100111,111110001100001000100010101111  
17 = 1111101111110111,11101111101001111011,11111011001110101001111  
18 = 111011111110111,111111001011110111,11111010111000101101111  
19 = 111101110111011,1111011101000101101011,11111010001101010010001110111  
1A = 111110110110011101,1111101100010100101100001111,111110000110010000010010101111  
1B = 1101110111111101,11111111110010111011,11110110100111001111111  
1C = 1111011101101110,1111110010100011001101011,111110010100100101000010001101111  
1D = 1101111110111101,1111100110111111011,11111101111010011111

1E = 11110111101011101011,11111010100110100100011001111,111110110001000010100010010000111111  
1F = 111011011110111111,11111111001111101011,111110010111011001101111  
1G = 1111011011110111011,1111110101010011001011011,1111101001010000110001001101111  
1H = 1111101101100111011,11111010001101100100101001111,1111101001000100000010100110011111  
1I = 1111011011111011,111011111101001111011,1111101011001110101001111  
1J = 111011101111011011,111110010110100011011111,111110011000101100101010111  
1K = 111110110111011011,11111010100110100100111011,11111010100100010010001100011111  
1L = 11110111000111011011,1111110100100100101110001011,1111100001010001000001100100101111  
1M = 11111011011001110111,1111010100101110000110010111,1111100110100100000000101010011111  
1N = 1111011101111111,11111111111001011011,1111101001011101101111  
1O = 1111011101111011,1111101111010011101011,1111101001001111010110111  
1P = 1111101111011101,11110110111010001101111,111101010011011100110111  
1Q = 1111011101110110,1111101001101000100110111,11111001010001110010100010111  
1R = 111110110110011101,11111011000101001010010001111,11111101001001000001000101000110111  
1S = 11110111100110101011,111110100010101100110010111,1111110100100010000010001010010111  
1T = 111110110110011101,111110100101110000110010111,1111101001100001000000101010011111  
1U = 111110111100111011,1111110100011010001011000111,111110001010010010001000111111  
1V = 11110110111101101,111111011000100111011011,11111001101011000100101111  
1W = 111110110110011101,111110100101110000110010111,111110100110001000000010101001111  
1X = 111101101011101011,111111010001110010010100111,1111101000100001010001001101111  
1Y = 111110101001101011,111111001011000110101001011,11111100101010001000010001100001111  
1Z = 1110110111101111,111111111101110101,1111101010111111001111  
1a = 111101110110011101,111110110101001100100010100111,11111010011000010000100100011001111  
1b = 11101111011101101,1111110101001100011001010011,11111000101010010001001000011111  
1c = 11110111011101101,11111101001010001100011010011,11111000101000100010010100011111

1d = 111110110110111011,1111101100010110010011010111,1111101100100001001000010100001110111  
1e = 11111011110111011,111110110001011010010110111,11111100110100011000010001010111  
1f = 1111101111011101,1110111001001101100101111,1111011011100101110001111  
1g = 11110110111011101,11111101011000110010100111,11110110000101010100011001001111  
1h = 1111101111011101,11111101010011010001011000111,1111100001100101000010001100101111  
1i = 11110111101101101,111110100011000111010110111,11111011010001000010010100100111  
1j = 1111101111011101,1110111001001110100101111,111101001110010101100111  
1k = 1111101111011101,1110110101001101000101100111,1111100001100101000010001000101111  
1l = 1111101111011101,11111101010011010001011000111,11110100010100101000010001100101111  
1m = 1111101111011101,11111011001010010100011111,1111010010100011001001110010111  
1n = 1111101111011101,111110010101110111001011,111110110100000110011010111  
1o = 1111101111011101,1110110101001101000101100111,11110100001100101000010001100101111  
1p = 1111101111011101,11111101010011010001011000111,11110100001100101000010001100101111  
1q = 1110110111011101,111111100101001001111011,11111001011101110100010111  
1r = 1111101111011101,1111101100111010011010111,111101010100101000010011000101111  
1s = 1110110111110111,1111110111000101110111,111110010010111001010111  
1t = 111101111011101,111110100100111100101111,111110101110001001110111  
1u = 1111101011101101,11111100101111001010111,11111010010000100010101111  
1v = 1111101110110111,1111101001111011001011,111101110010010000101010111  
1w = 1111011101110110,1111101001101000100110111,1111100101000110010010010111  
1x = 111011110010111101,11111010111011000101011,111110101010000110011001111  
1y = 111110111001011101,11111010100111000110010010111,1111101001000100001000010101001111  
1z = 111101101110101100,11111101111001011011,111110101100000001000100100101111  
20 = 11101101111011101,1111101111100101011011,1111110100010111011011,1111110100010111011011  
21 = 1111101111011101,1111101101100111001111,111110010100010010010101111