

0 = 111111111111,110111111111,111110111111,111111101111
1 = 111111111111,110111111111,111110111111,111111110111
2 = 111111111111,110111111111,111110111111,111111101011
3 = 110111111111,111101101111,111111001111,111111110101
4 = 111111111111,110111111111,111110111111,111111101111
5 = 111111111111,110111011111,111101101111,111111101011
6 = 111011111111,110111101111,111111011011,111111100101
7 = 110111111111,111101101101,111101110011,111110010111
8 = 111111111111,110111111111,111111011111,111110111011
9 = 111111111111,110111101111,111101111011,111110110111
A = 111101111111,110111011111,111111001111,111111110101
B = 111101111111,110111111011,111111010111,111101100111
C = 111101111111,110111011011,111111010011,111100101101
D = 111011111111,110111100111,111111011011,111100101101
E = 110111111111,111101111011,111111011011,111111010111
F = 111101111111,110111011111,111111101011,111100101101
G = 110111111111,111110101111,111100110111,111101100101
H = 111101111111,110111011011,111111001011,111100101101
I = 111101111111,111111011011,111100111011,111101101101
J = 111011111111,111111011011,111100100111,111101011100
K = 111111111111,110111111111,111110110111,111111010111
L = 111101111111,110111111011,111111010111,111100101101
M = 110111111011,111101110110,111100101111,111101101001
N = 111101111111,111111011011,110111011001,111010011101
O = 111011111111,111110101011,110110100111,111100111101
P = 110111110111,111100101111,110101100110,111101011001
Q = 111010111111,111111100101,111101011001,111100100110
R = 110111111111,111101110111,111110111011,111110011111
S = 111101011111,110111011011,111111100101,111000110101

T = 111101011111,110111111010,111101100110,111110011001
U = 111011111111,111111010101,111100100111,111101011000
V = 111101111111,110111111011,111111010111,111101001011
W = 111101101111,110111110100,111101000101,111101011000
X = 111011111111,111111010101,111101011000,111101001101
Y = 111101101111,110111110101,111110011001,111101010001
Z = 111011101111,111100111011,111101010001,111101001010
a = 111101011111,110110011101,111101010010,111101000001
b = 111011110111,111101001110,111101101001,111101000100
c = 111011111111,110111101101,111110111010,111111010011
d = 110111111011,111101110110,111100101111,111101110100
e = 111011101111,111101001110,111101101001,111101100010
f = 110111111011,111110010110,111101100101,111100110001
g = 111101101111,110111000110,111110101100,111101100000
h = 111011101111,111111011011,111101001010,111101101000
i = 110111110111,111110010110,111101100101,111100100010
j = 111011011111,110111000110,111100101011,111101000100
k = 111101011111,110111000110,111110101100,111110001001
l = 111101101111,111101001011,111101110001,111100100101
m = 111101101111,110111000110,111110101100,111101010001
n = 111101101111,110111000011,111100101001,111101000100
o = 111101101111,111101100011,111101011001,111101001001
p = 111101101111,110111000110,111110101100,111110001000
q = 111011101111,111101001011,111100110100,111110100010
r = 111101101111,111100101001,111101100011,111100100010
s = 111011101111,111100101101,111101100010,111101000100
t = 111101101111,110101100011,111100101001,111101000100
u = 111011101111,111101001011,111100110001,111101000100
v = 111101101111,110101100011,111100101001,111101000100

w = 111101101111,111010110001,111110010100,111101001000
x = 111101101111,111100101001,111101010000,111101001000
y = 111011101011,111100110001,111101000010,111100100001
z = 111011111011,111101011101,111011101000,111110010010
10 = 111101110111,111110010100,111101101000,111100101000
11 = 111101110111,111100101001,111101100001,111100010000
12 = 111011101011,111100110001,111101000010,111100010000
13 = 111101101111,111101011100,111101010010,111101000100
14 = 111101110111,111100101001,111101010001,111100100010
15 = 111101101111,111100011010,111101100001,111101001000
16 = 111101101111,111101001000,111101010001,111110000100
17 = 111101101111,111101001000,111101010001,111100001000
18 = 111011101011,111101000010,111101001000,111101001000
19 = 111011101011,111101001000,111101010001,111100010000
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1C = 111101101111,111101001010,111101100001,111110001000
1D = 111011011011,111110010001,111100101000,111110000100
1E = 111101110111,111101000100,111110001010,111101000100
1F = 111101101111,111101100001,111100011010,111101001000
1G = 111101101111,111101100100,111101000100,111110000100
1H = 111101101111,110110010001,111101010001,111101001000
1I = 111101101111,111100010100,111100110001,111101001000
1J = 111101101111,111011000010,111100011010,111100100100
1K = 111101101111,111100010110,111101100001,111101001000
1L = 111011011011,111001011000,111101100010,111101000100
1M = 111101101111,111101001001,111101010000,111110000100
1N = 111101101111,111100100010,111100010001,111101000100

1O = 111010110101,111101100010,111101000010,111101000010
1P = 111011101011,111101001001,111101010000,111100010000
1Q = 111010110101,111101100010,111101000100,111101010001
1R = 111010110101,111101000100,111101001001,111101010001
1S = 111101101111,111011111001,111101010001,111101001000
1T = 111011011011,111100110001,111100010010,111101000010
1U = 111010110101,111101100010,111101000010,111100010000
1V = 111011011011,111100100010,111100010001,111100100000
1W = 111101110111,111010110001,111100101001,111101000100
1X = 111100110101,111101010001,111101000100,111100100000
1Y = 111010011010,111101101000,111100010010,111100100000
1Z = 111010011010,111101101000,111100010010,111100010000
1a = 111100110101,111101011000,111101000100,111100100000
1b = 111101101111,111110101100,111101001101,111100100100
1c = 111011011101,111101110010,111110001001,111101010010
1d = 111101101111,111101011100,111101001101,111101001000
1e = 111101101111,111101100011,111101011100,111101000100
1f = 111011110111,111110100101,111101000110,111101010001
1g = 111101101111,111101011001,111101001101,111100100100
1h = 111101101111,111101011100,111101001101,111100100010
1i = 110111110111,111100101110,111101101001,111101100010
1j = 111101011011,111101010001,111100110001,111100100000
1k = 111101101111,111101000110,111101001000,111101010001
1l = 111010110101,111101100001,111101100001,111100010000
1m = 111101101111,111101010001,111101000110,111100010000
1n = 111101101111,111101100010,111101000001,111100010000
1o = 111011101111,111101100010,111101000100,111100010000
1p = 111010110101,111101100001,111101000100,111100010000

1q = 111101101111,111110101100,111101000110,111110010000
1r = 111101101111,111100101100,111101011000,111110001000
1s = 111101101111,111101100011,111101011100,111101010000
1t = 111101101111,111100101100,111101011000,111100100000
1u = 111101110111,111101101000,111100100100,111100100000
1v = 111011011101,111101011001,111101000010,111100010000
1w = 101111111101,111101101110,111101110011,111110010111
1x = 111101101111,111101111100,111101110001,111100101001
1y = 111101110111,111101001100,111101001000,111101100010
1z = 111101011101,111101100101,111100100001,111101001000
20 = 111101101111,111100101100,111101011000,111100100000
21 = 111101101101,111100101100,111101010001,111100100000
22 = 111101101111,111101001001,111101010000,111100010000
23 = 111101101111,111100101100,111101110000,111101000100
24 = 111101101101,111101001000,111101000100,111100110000
25 = 111100110101,111101011000,111101000100,111100100000
26 = 111101101111,111101001000,111101000100,111100001000
27 = 111101110111,111110110101,111101100001,111110000100
28 = 111011110111,111101001110,111101110001,111101100001
29 = 111101101111,111101010110,111101000100,111101000100
2A = 111101101111,111101100011,111101011001,111101000100
2B = 111011110111,111110100110,111100101100,111101100001
2C = 111011110111,111110100110,111101100010,111101100000
2D = 111101101111,111101001000,111101010001,111110000100
2E = 111010110010,111101101000,111101000100,111100000100
2F = 111011011011,111101000100,111101000100,111100010000
2G = 111101111111,111101110111,111111110101,111100111111
2H = 111101101111,111101010001,111100100100,111100100000