input:

output:

Error detected !!
at iteration 2

Base 16:

0 1 2 3 4 5 6
0000 0001

7 8 9 A B C D E F
          10 11 12 13 14 15
                  1100 1101 1110 1111

0
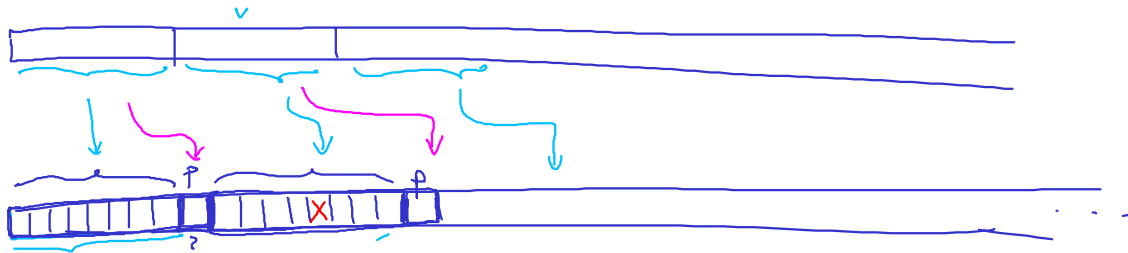
$$\underbrace{1\ 0\ 0\ 1}_{9}\ \underbrace{1\ 0\ 0\ 0}_{8}$$

58 = 01011000

DD = 11011101