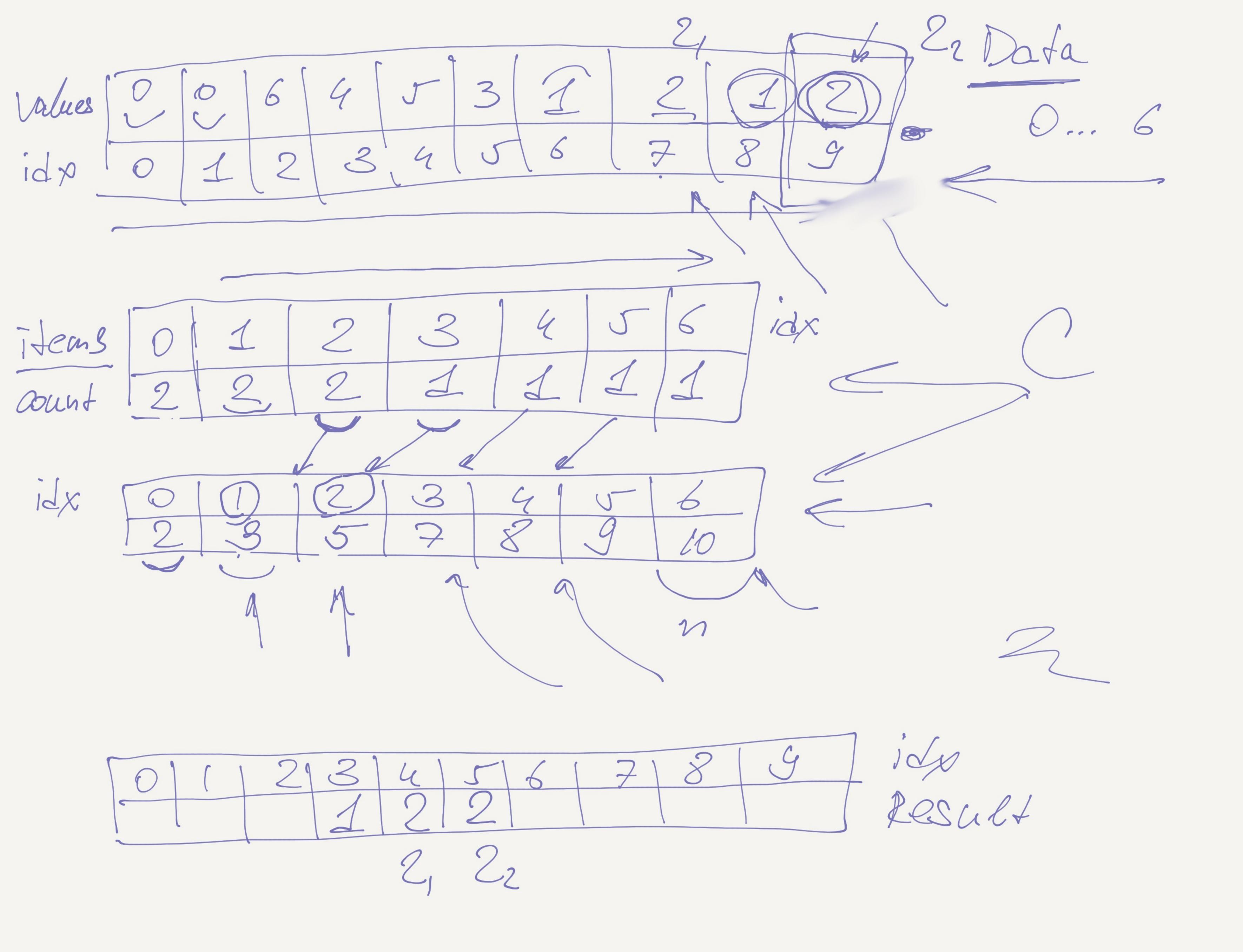
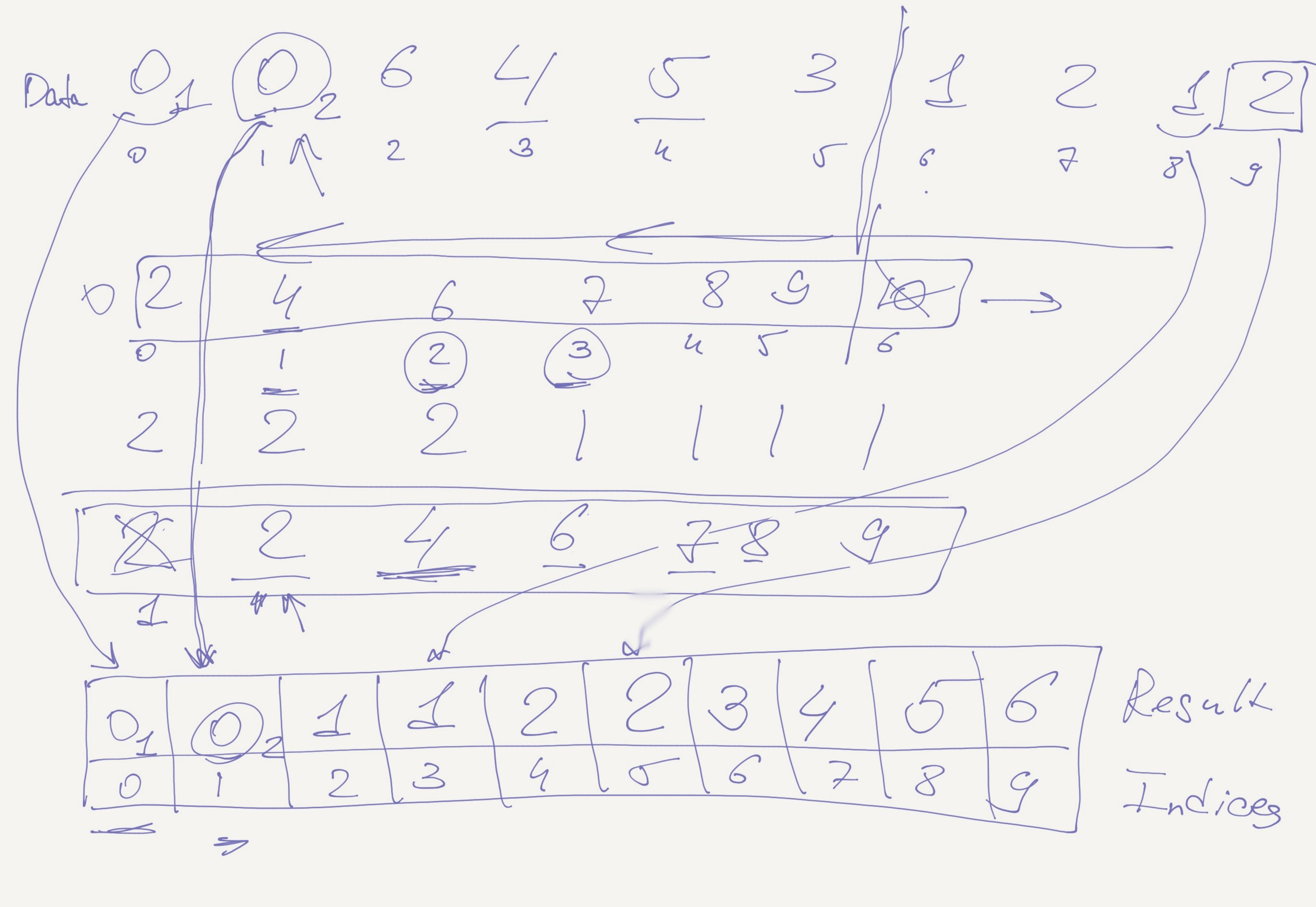
F02 i=0 +0 M: Foz j = 0 to Cocent [i]: & 1 2 h meten = O(men) 1 = 0 1 = 1

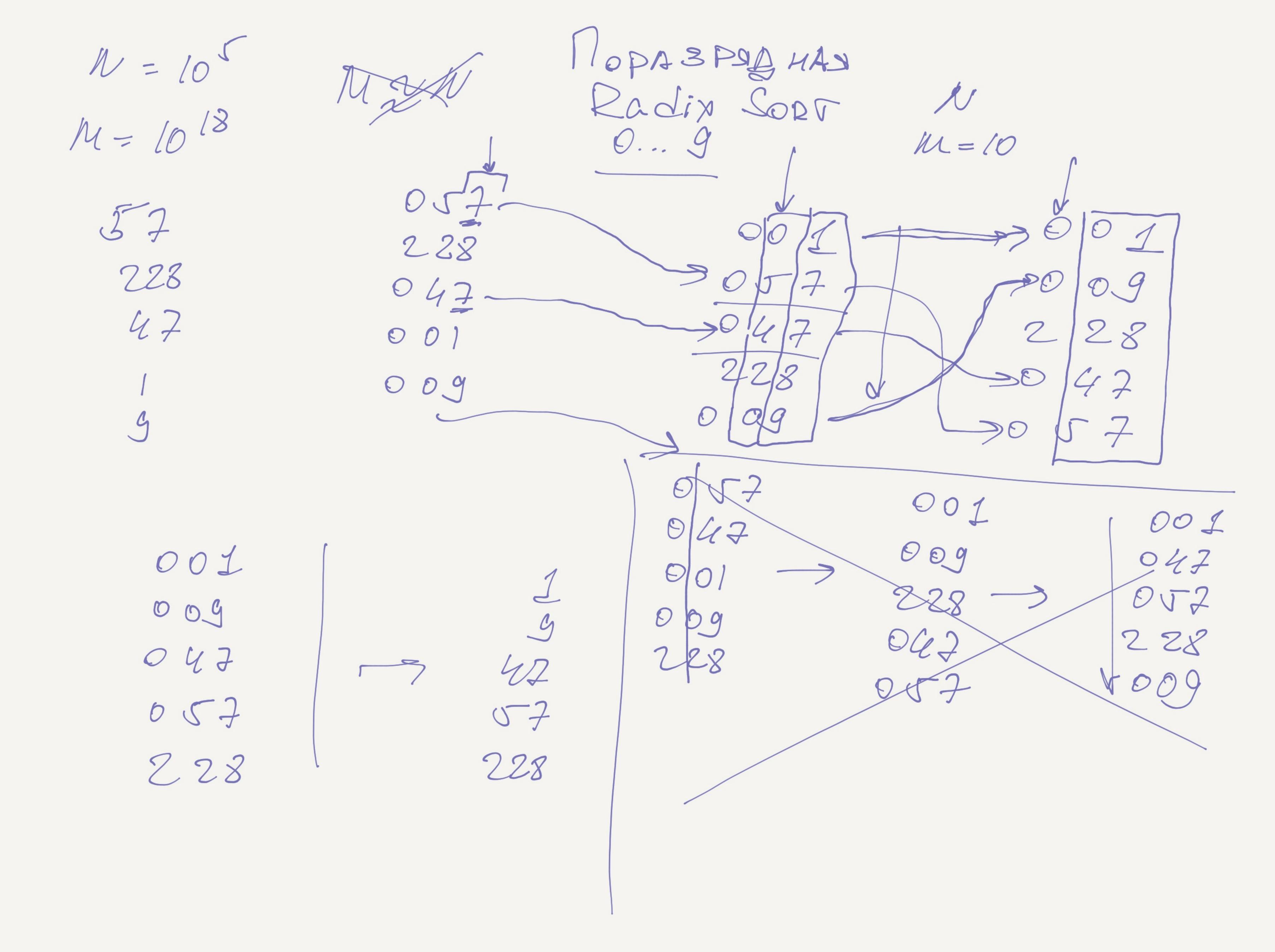


Kopmen, M.S M ) ao, a,,..., an-1 CelxBux, T1.10 Fielo; n-1]: 0= ai < M KHYT (NN) = 0(n') 0.06453 0011223456 (n/25)



0 6 5 3 4 12 0 1 2 3 4 5 2 2 2 1  Count [X] = & Result LaJ = X

Counting SORT (Data, M): Count [0 -... M] = 203 0 1 2 2 2 ---Foz i = 0 +0 Data, size() -1: Count[Data Si]] +=1 0 1 2 3 I = I = I = M Count[i] t = Count[i-1]2 4 6 7 Foz i= Data. Size()-1 to 0. Result [Count Data Ci] = Data Si] Count [Darfa [i7] -= 1 Zeturn Result



For i = 0. fo d-1: d

Counting Sort (n, i) / Here KAIDA Homep PA3 PSIAA

n - Konvederber - 6 vertyross

b - geleter rance | 6 Jurger

R - grenter Pappaga | 0 (n ~m)  $O\left(d\cdot n\right)$ ( B) (M+ 20) 0 \_\_\_ 2 ~\_\_ 1  $\frac{b}{R}(n+2l)=\frac{b}{b}(n+2l)=n+2l$  =n+2l= 2n  $6 > los_2 n \Rightarrow 2 = log_n$   $\frac{b}{D}(n+2R) = \frac{b}{100}(n+(2^{los_2n}))$ 

000 =3 / 20= lyen Counting Sort (n, 7)