

# Meeting rooms II

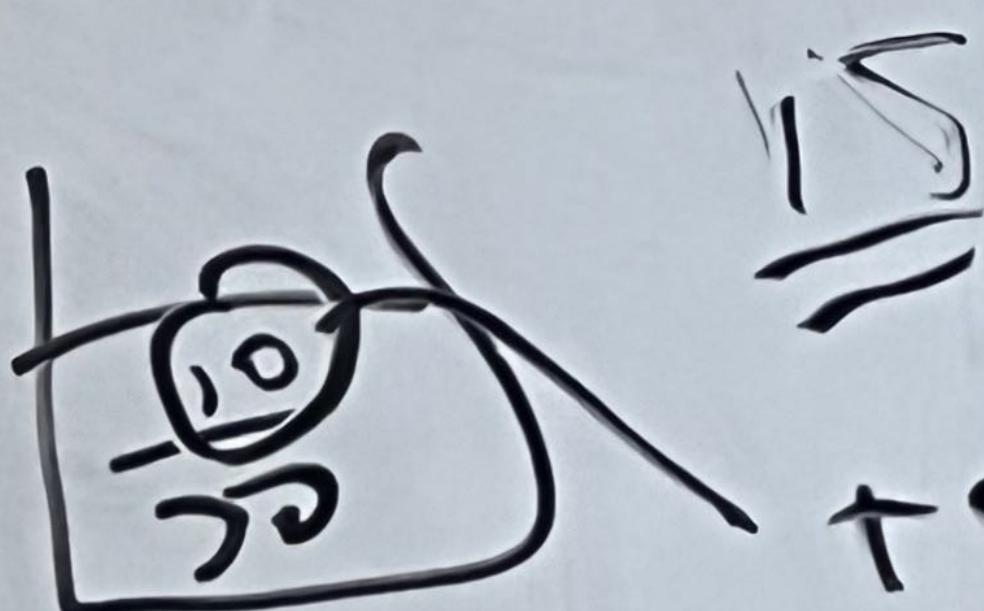
$M = \left[ \left[ \overset{n}{\overbrace{0, 30}}, [0, 10], [0, 20] \right] \right]$

(~~20~~, 25')

0, 0, 5, 15  
10, 20, 20, 30

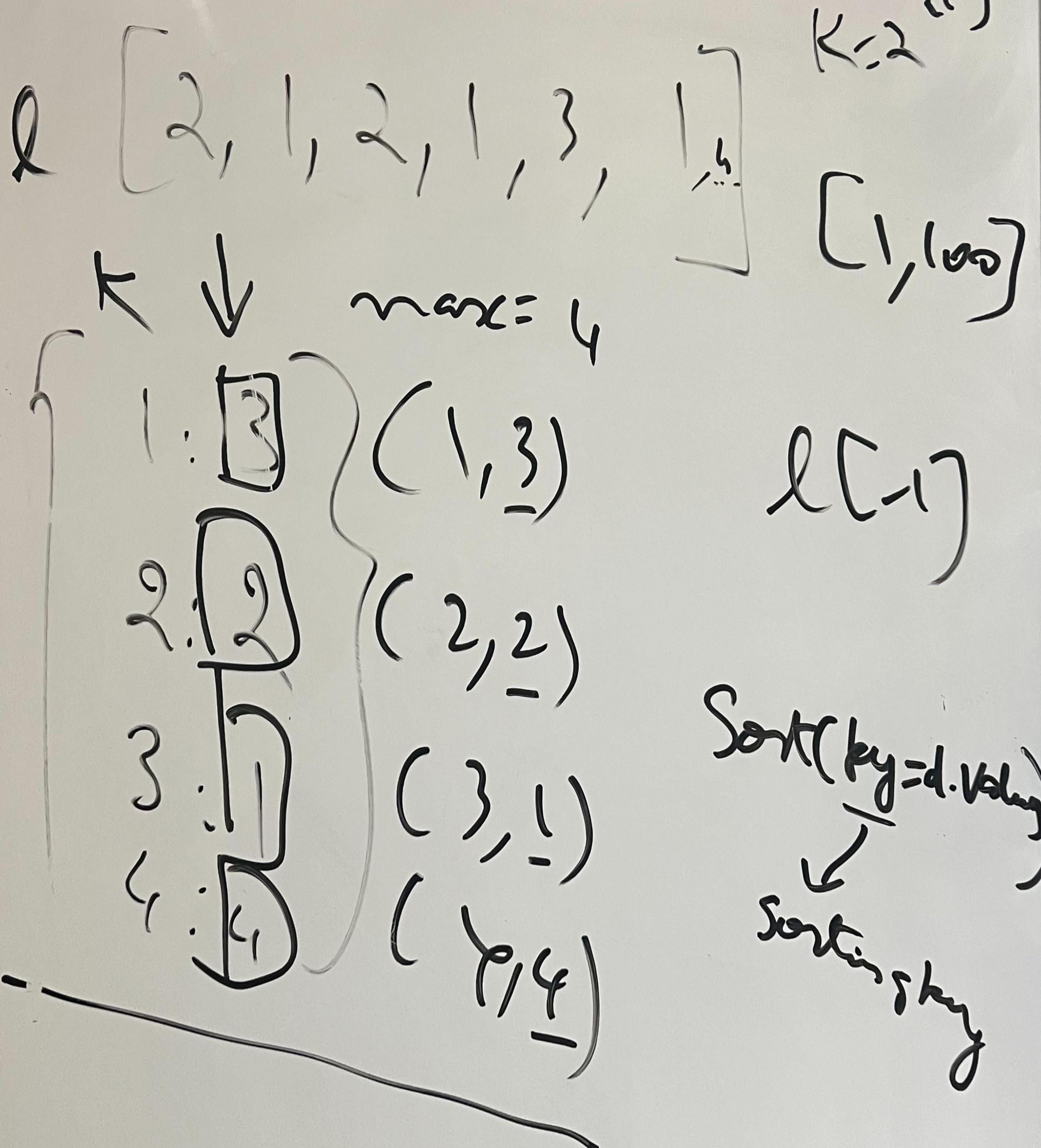
50

N log N +

  $\Rightarrow$   $Q \subseteq [5, 15] \cap [10, 20]$

$\left[ \left[ 0, 30 \right], \left[ 5, 15 \right], \left[ 10, 20 \right] \right]$

# Top K frequent elements

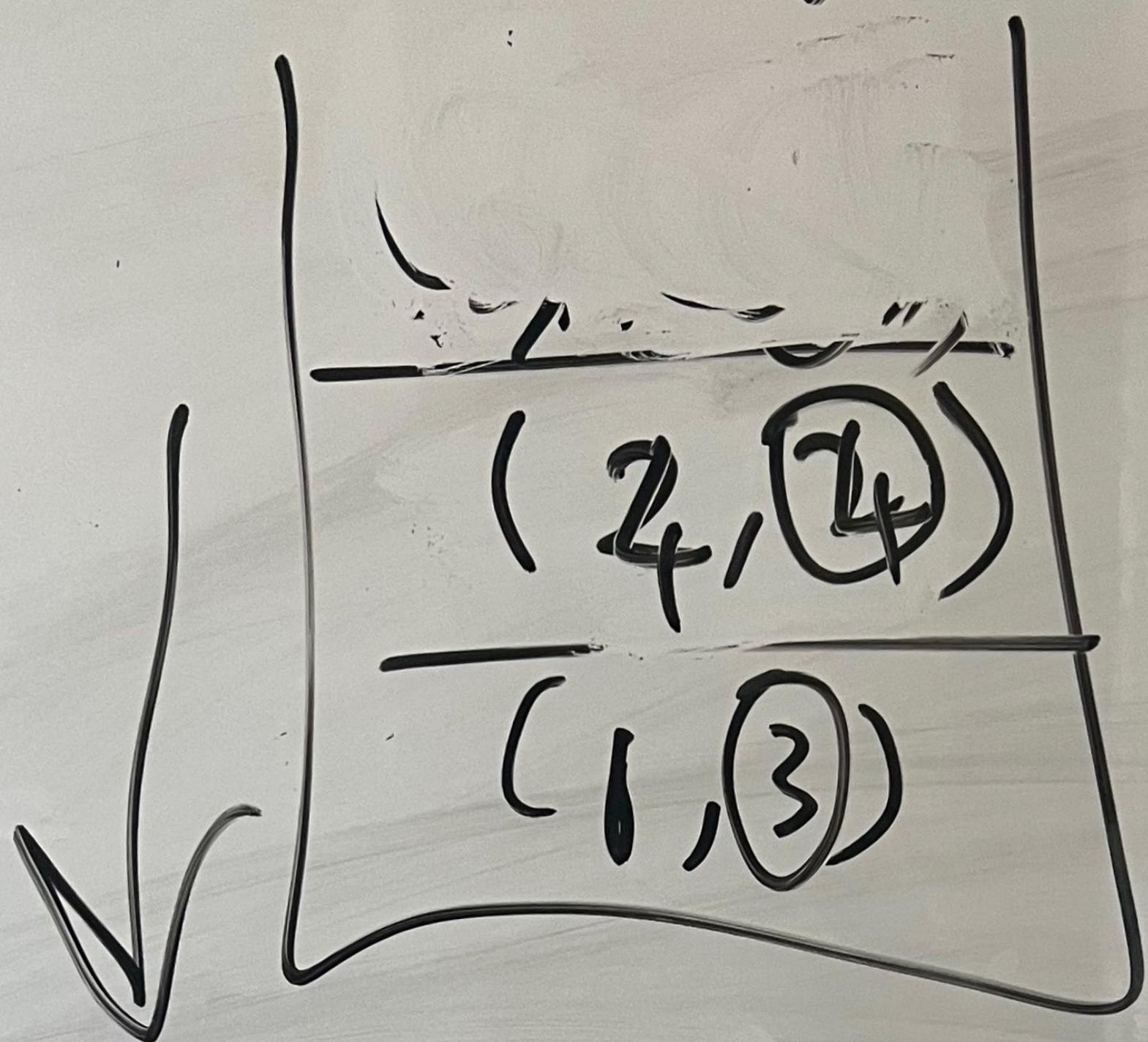


Solution -  $O(n \lg n)$

Bucket -  $O(n)$  +  $O(n \lg n)$  (min ele)

Heap -  $O(n) + O(n \lg k)$  ( $\lg n \max \log k$ )

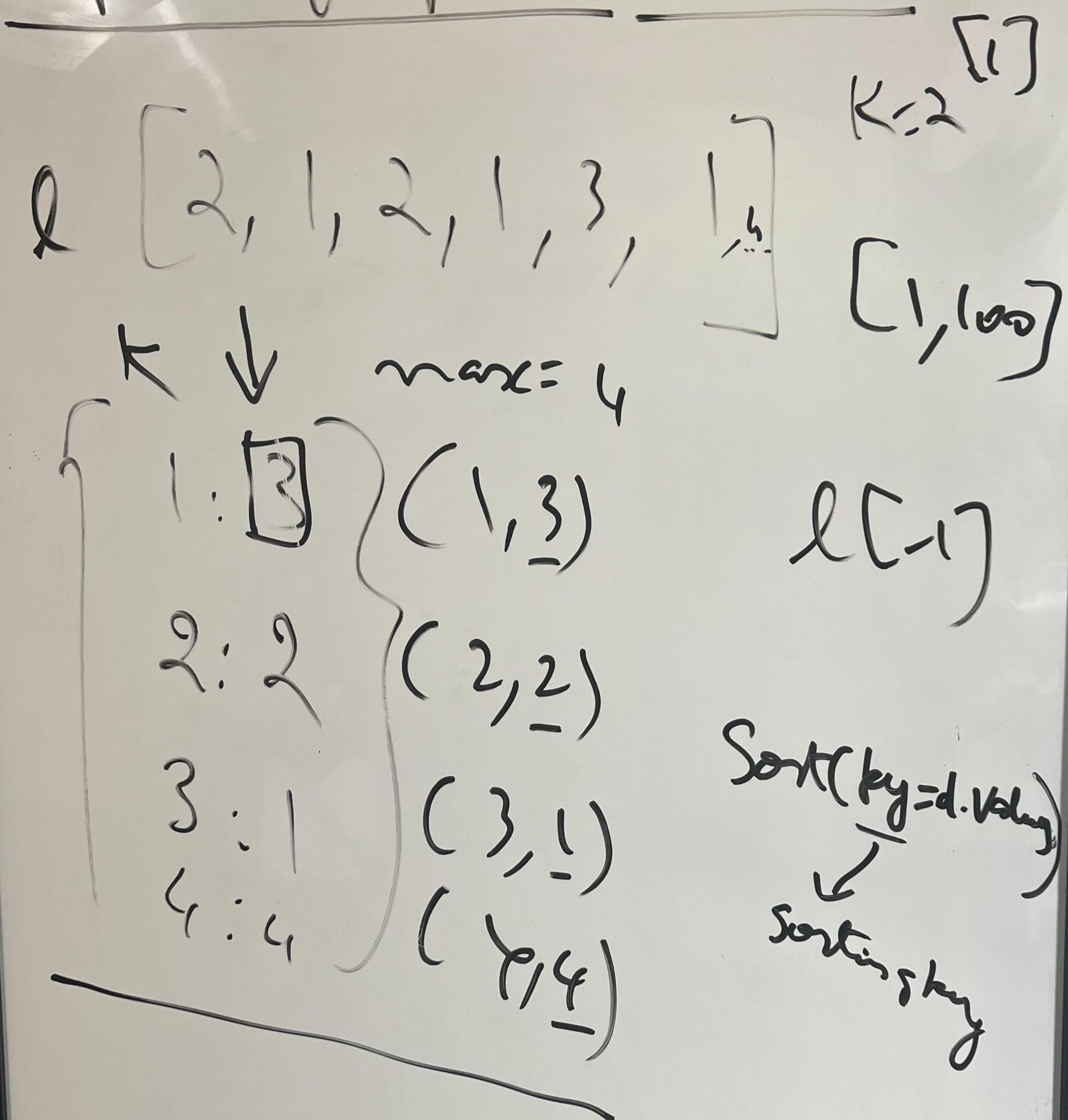
MIN



C<sub>4</sub>, J

(Count, num)  
↳ [:] [J]

# Top K frequent elements



Solution -  $O(n \log n)$   
 Bucket -  $O(n)$   
 $+ O(n \log n) + O(k)$ ,  $O(k \min n \log k)$