

# \* Top K Frequent Elements

1, 1, 1, 2, 2, 3, 3, 3, 4  $\rightarrow$  2, 3  
 1, 3 1, 2, 3

Obviously map to track occurrences.

1  $\rightarrow$  3

2  $\rightarrow$  2

3  $\rightarrow$  3

4  $\rightarrow$  1

Priority Queue (max heap) or TreeMap

sorting by occurrences  
 count

frequency as key

• Bucket Sort can be used.

[0, 1, 2, 3, 4]

[0, 3, 2, 3, 1]

# of occurrences

[null, <4>, <2>, <1, 3>]

occurrences by frequencies

without deleting from previous list

directly add to next position of list.

[null, <1, 2, 3, 4>, <2, 1, 3>, <1, 3>]

K=3

K=2

iterate from end & find list with matching K value

fine as there is one absolute answer.