Hard Question

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Lec 3: Hard Problems

STATUS	PROBLEM
☐	Design twitter
☐	Connect `n` ropes with minimal cost
☐	Kth largest element in a stream of running integers
☐	Maximum Sum Combination
☐	Find Median from Data Stream
☑	K most frequent elements

Last Question :
K most frequence element

347. Top K Frequent Elements   Solved ⊘

Medium   🏷 Topics   🔒 Companies

Given an integer array `nums` and an integer `k`, return *the `k` most frequent elements*. You may return the answer in **any order**.

Example 1:

```
Input: nums = [1,1,1,2,2,3], k = 2
Output: [1,2]
```

Example 2:

```
Input: nums = [1], k = 1
Output: [1]
```

Sol

```java
class Solution {
    public int[] topKFrequent(int[] nums, int k) {
        Map<Integer ,Integer> map=new HashMap<>();
        for(int i:nums)
        map.put(i, map.getOrDefault(i,0)+1);

        PriorityQueue<Temp> pq=new PriorityQueue<>();
        for(Map.Entry<Integer, Integer> it : map.entrySet()){
            pq.add(new Temp(it.getKey() , it.getValue()));
            if(pq.size()>k) pq.remove();
        }
        int[] ans=new int[k];
        for(int i=0;i<k;i++){
            ans[i]=pq.remove().num;
        }
        return ans;
    }

    static class Temp implements Comparable<Temp>{
        int num;
        int freq;
        Temp(int num ,int freq){
            this.num=num;
            this.freq=freq;
        }
        public int compareTo(Temp t){
            return this.freq-t.freq;
        }
    }
}
```

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