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import java.util.*;
import java.lang.*;
import java.io.*;

class Day76
{
    static boolean isPoss(int x,long []arr,int k,int c)
    {
        ArrayList<ArrayList<Long>> list=new ArrayList<>();
        int cur=0,n=arr.length;
        for(int i=0;i<x;i++)
        {
            list.add(new ArrayList<Long>());
        }
        for(int i=0;i<n;i++)
        {
            cur=cur%x;
            int sz=list.get(cur).size()-1;
            if(sz<0 || list.get(cur).get(sz)*c<=arr[i])
            {
                list.get(cur).add(arr[i]);
                cur=(cur+1)%x;
            }
        }
        if(list.get(x-1).size())>=k)
            return true;

        return false;
    }

    static long divset(long []arr,int k,int c)
    {

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int n=arr.length;
int l=1,r=n;//To avoid zero x

int res=0;

Arrays.sort(arr);

while(l<=r)

{

int mid=l+(r-l)/2;


if(isPoss(mid,arr,k,c)){

l=mid+1;

res=mid;

}

else

r=mid-1;

}

return res;

}

```

```

public static void main (String[] args) throws java.lang.Exception
{

BufferedReader bf=new BufferedReader(new InputStreamReader(System.in));

int t=Integer.parseInt(bf.readLine());

StringBuffer str=new StringBuffer("");

while(t-->0)

{

String s[]=bf.readLine().trim().split("\\s+");

int n=Integer.parseInt(s[0]);

int k=Integer.parseInt(s[1]);

int c=Integer.parseInt(s[2]);

long arr[]=new long[n];

s=bf.readLine().trim().split("\\s+");

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for(int i=0;i<n;i++)  
arr[i]=Long.parseLong(s[i]);  
  
str.append(divset(arr,k,c)+"\n");  
}  
System.out.println(str);  
}  
}
```