Day 89 coding Statement:

Solution:

```java
import java.util.*;
import java.lang.*;
import java.io.*;
class Day89{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        PrintWriter pw=new PrintWriter(System.out);
        int t=sc.nextInt();
        sc.nextLine();
        while(t-->0){
            int n=sc.nextInt();
            int k=sc.nextInt();
            long c=sc.nextInt();
            long a[]=new long[n];
            for(int i=0;i<n;i++)a[i]=sc.nextLong();
            Arrays.sort(a);
            int min=0;
            int max=n/k;
            int ans=0;
            while(min<=max){
                int mid=min+(max-min)/2;
                if(check(a,mid,k,c)){
                    ans=mid;
                    min=mid+1;
                }
```

```java
            else
                max=mid-1;
        }
        pw.println(ans);
    }
    pw.close();
}
    static boolean check(long[] a,int x,int k,long c)
    {
        if(k*x>a.length) return false;
        if(x==0) return true;
        long v[][]=new long[k][x];
        for(int i=0;i<x;i++) v[0][i]=a[i];
        int s=x;
        for(int i=1;i<k;i++){
            for(int j=0;j<x;j++){
                boolean flag=false;
                while(s<a.length){
                    if(a[s]>=c*v[i-1][j]){
                        v[i][j]=a[s];
                        s++; flag=true;
                        break;
                    }
                    s++;
                }
                if(!flag) return false;
            }
```

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        }
        return true;
    }
}
```