```java
import java.util.*;

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.nextLong();
            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;
                } else
                    max = mid - 1;
            }
            pw.println(ans);
        }
        pw.close();
    }
```

```java
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;
        }
    }
    return true;
}
```