

```

def sol(x):
    arr = [[] for _ in range(x)]; p = 0
    for i in range(n):
        if len(arr[p])==k:
            return True
        if len(arr[p])==0 or arr[p][-1]*c<=a[i]:
            arr[p].append(a[i])
            p = (p+1)%x
        if len(arr[p])==k:
            return True
    return False
for _ in range(int(input())):
    n,k,c = map(int,input().split())
    a = list(map(int,input().split()))
    a.sort(); l = 1; r = n+1
    while r-l>1:
        mid = (l+r)//2
        if sol(mid):
            l = mid
        else:
            r = mid
    print(l)

```