K Odd Number

? Ask Doubt

Time-Limit: 2 sec Score: 0/100 Difficulty :

Memory: 256 MB Accepted Submissions: 100 Relevant For: AZ-201 AZ-202 AZ-301

Description

Given an array of *N* integers, find a subarray with at most *K* odd numbers and the total sum is maximum but not more than *D*. If no such subarray exists print *"IMPOSSIBLE"* without double-quotes.

Input Format

The first line contains *T*, the number of test cases *(1<=T<=10)*.

The first line contains two space separated integers *N, K, D* where *1<=N<=10^5, 0<=K<=10^5, -1e9<=D<=1e9*.

Next line contains *N* space-separated integers *(-1e4<=Ai<=1e4).*

Output Format

For each test case print the sum of subarray with at most *K* odd numbers and the total sum is maximum, but not more than *D* in a newline. If no subarray is possible then print *"IMPOSSIBLE"* without double-quotes.

Sample Input 1

Copy

```
6
3 2 5
1 2 3
3 1 2
-3 -1 -3
5 2 8
-1 2 3 4 -5
7 0 -2
1 -4 1 0 1 0 2
10 3 14
1 0 -7 1 -10 4 -2 10 -1 3
3 0 1000
-101 201 -301
```

Sample Output 1

Copy

```
5
-1
8
-4
```

C++14[GCC]

Submit

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