Description   My Submissions   Hints/Editorial   AC Submissions   Video Editorials   My Notes (0)

Remove K integers

🔖   ❓ Ask Doubt

⏱ Time-Limit: 1 sec   ✎ Score: 0/100   Difficulty : ★★★★

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

Description

Given an array *N* integers in nondecreasing order. Remove *K* integers such that the maximum difference between two consecutive elements is minimized.

Input Format

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

The first line of each test case contains two integers *N* and *K*, *3<=N<=3*10^5, 1<=K<=N-2*.

The second line of each test case contains *N* space-separated integers, *-1e9<=A[I]<=1e9*.

Output Format

For each test case print a single integer, representing the minimum-maximum difference between two consecutive elements after removing K integers in a new line.

Sample Input 1   ⧉ Copy

```
2
5 1
1 5 6 8 9
5 2
1 5 6 7 1000
```

Sample Output 1   ⧉ Copy

```
2
1
```

Note

For the first test case → remove 1.

For the second test case → remove 1 and 1000.

C++14[GCC] ▾

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