

- Description
- My Submissions
- Hints/Editorial
- AC Submissions
- My Notes (0)

Minimum Penalty

? Ask Doubt

Time-Limit: 1 sec

Score: 0/100

Difficulty :

Memory: 256 MB

Accepted Submissions: 100

Relevant For:

AZ-201

AZ-202

Description

Given an array of N integers and an integer D . Consider all subarray with length D , the penalty of the subarray is the number of distinct elements present in the subarray. Find a subarray of length D with minimum penalty. Print the minimum penalty.

Input Format

- The first line contains T , the number of test cases ($1 \leq T \leq 10000$).
- The first line contains two space-separated integers N, D where $1 \leq N \leq 10^6, 1 \leq D \leq N$.
- Next line contains N space-separated integers ($0 \leq A_i \leq 1e6$).
- The Sum of N across all test cases $\leq 5 \cdot 10^6$.

Output Format

For each test case print the minimum penalty in a newline.

Sample Input 1

Copy

```
5
6 3
0 1 1 2 2 2
5 3
1 0 1 2 3
5 5
1 1 2 3 4
5 1
1 2 3 4 5
7 3
1 2 1 2 3 4 2
```

Sample Output 1

Copy

```
1
2
4
1
2
```

C++14[GCC] ▾

Submit

1