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Diversify the Array



? Ask Doubt

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

Memory: 256 MB Accepted Submissions: 100 Relevant For:

AZ-202

AZ-201

Description

You have given an array A . The diversity of the array A is defined as the number of pairs $i, j, i < j$ such that $A_i \neq A_j$. You want to maximize the diversity of the array. For that, you are allowed to make at most K operations on it, in any of which, you can select a particular element and change its value to any integer in the range 1 to 10^9 , both inclusive. Find out the maximum diversity of the array that you can obtain.

Input Format

The first line will contain T , number of test cases. Then the test cases follow.
The first line of each test case contains two integers N, K . where N denotes the length of array A .
The next line of each test case contains N space-separated integers, the i -th of which denotes A_i .

Output Format

For each test case, output in a single line, the answer corresponding to the test case, which should be an integer denoting the maximum possible diversity.

Constraints

$1 \leq T \leq 20$
 $0 \leq K \leq 10^9$
 $2 \leq N \leq 10^5$
 $1 \leq A_i \leq 10^9$

Sample Input 1

Copy

```
3
3 10
1 2 3
4 2
1 1 2 2
6 2
2 3 3 2 4 4
```

Sample Output 1

Copy

```
3
6
14
```

C++14[GCC] ▾



Submit

1

