CSES Problem Set

Subarray Distinct Values

Time limit: 1.00 s **Memory limit:** 512 MB

Given an array of n integers, your task is to calculate the number of subarrays that have at most k distinct values.

Input

The first input line has two integers n and k.

The next line has n integers $x_1, x_2, \ldots, x_n$: the contents of the array.

Output

Print one integer: the number of subarrays.

Constraints

- $1 \le k \le n \le 2 \cdot 10^5$
- $1 \le x_i \le 10^9$

Example

Input:
```
5 2
1 2 3 1 1
```

Output:
```
10
```

Sorting and Searching

...
Subarray Sums I -
Subarray Sums II -
Subarray Divisibility -
Subarray Distinct Values -
Array Division -
Sliding Median -
Sliding Cost -
Movie Festival II -
...

Your submissions