

THICC '17 P5 - Smarties

Time limit: 1.4s **Memory limit:** 128M

A certain magical rabbit found a row of N smarties, with the i^{th} smartie having flavour F_i . A certain archmage offered the rabbit unlimited carrots if she could figure out how many subarrays had at least K distinct flavours of smarties. Since you too love carrots, you decided to get out your computer and start coding up a solution ...

Input Specification

The first line will have 2 space separated integers, N and K .

The next line will have N space separated integers, F_1, F_2, \dots, F_N .

Output Specification

A single integer, the number of subarrays with at least K distinct flavours of smarties.

Constraints

For all subtasks:

$$1 \leq F_i \leq 10^6$$

$$1 \leq K \leq N$$

Subtask 1 [40%]

$$1 \leq N \leq 100$$

Subtask 2 [60%]

$$1 \leq N \leq 10^5$$

Sample Input

```
5 3
1 2 3 4 5
```

Sample Output

```
6
```