

# THICC '17 P5 - Smarties

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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

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

The next line will have  $N$  space separated integers,  $F_1, F_2, \dots, F_{N-1}, F_N$ .

## Output Specification

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

## Constraints

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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

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

## Sample Output

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```
6
```