E. Segments with Small Set

time limit per test: 1 second
memory limit per test: 1024 megabytes

Given an array of n integers a_i. Let's say that a segment of this array $a[l..r]$ $(1 \le l \le r \le n)$ is good if there are no more than k unique elements on this segment. Your task is to find the number of different good segments.

Input

The first line contains integers n and k $(1 \le n \le 10^5, 0 \le k \le n)$. The second line contains integers a_i ($1 \le a_i \le 10^5$).

Output

Print one integer, the number of good segments.

Example

input	Copy
7 3	
2 6 4 3 6 8 3	

output	Copy
20	

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