## Inversion Play

There is an array A of $n$ elements. You need to tell the number of subarrays having inversion count greater than equal to a particular value K .

## Constraints :

$1<=\mathrm{N}<=1^{*} 10^{\wedge} 5$
$1<=\mathrm{K}<=\mathrm{N}^{*}(\mathrm{~N}-1) / 2$
$1<=A[i]<=10^{\wedge} 9$

## Input

The first line will contain two space separated integers N and K .
The next line will contain $N$ space separated integers representing the elements of the array.

## Output

Print the answer to the given problem in one line.

## Example

Input:
53
54321

Output:
6

