# **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<=N<=1\*10^5 1<=K<=N\*(N-1)/2 1<=A[i]<=10^9

### 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: 5 3 5 4 3 2 1

#### Output:

6