Sam is playing with an array, $A$, of $N$ positive integers. Sam writes a list, $S$, containing all $A$ 's contiguous subarrays, and then replaces each subarray with its respective maximum element.

For example, consider the following $A$ where $N=3$ :
$A=\{1,2,3\}$
Subarrays of $A$ : $S_{\text {initial }}=\{\{1\},\{2\},\{3\},\{1,2\},\{2,3\},\{1,2,3\}\}$
Updated (Maximum) Subarrays: $S_{\text {maximums }}=\{\{1\},\{2\},\{3\},\{2\},\{3\},\{3\}\}$
Help Sam determine how many numbers in $S_{\text {maximums }}$ are greater than $K$.

## Input Format

The first line contains a single integer, $T$ (the number of test cases). Each test case is described over two lines:
The first line of each test case contains two space-separated integers, $N$ (the number of elements in array $A$ ) and $K$, respectively.
The second line of each test case contains $N$ space-separated integers describing the elements in $A$.

## Constraints

$1 \leq T \leq 10^{5}$
$1 \leq N \leq 2 \times 10^{5}$
$1 \leq A_{i} \leq 10^{9}$
$0 \leq K \leq 10^{9}$
The sum of $N$ over all test cases does not exceed $10^{6}$.

## Output Format

For each test case, print the number of maximums $>K$ in $S_{\text {maximums }}$ on a new line.

## Sample Input

```
2
3
2 3
3 1
123
```


## Sample Output

## Explanation

Both test cases use the same $A$ as described in the Problem Statement, so $S_{\text {maximums }}=\{\{1\},\{2\},\{3\},\{2\},\{3\},\{3\}\}$ for both test cases.

Test Case $0: K=2$
$S_{\text {maximums }}$ has 3 elements $>2$, so we print 3 .
Test Case 1: $K=1$
$S_{\text {maximums }}$ has 5 elements $>1$, so we print 5 .

