Problem E. Goose, goose, DUCK?

Input file:	`standard input`
Output file:	`standard output`
Time limit:	4 seconds
Memory limit:	1024 megabytes

In the game 'Goose Goose Duck', the geese's target is to complete the tasks and stay alive. However the saboteurs, ducks, will try to stop the geese from completing the tasks by killing them.

Now consider a game consisting of n geese and k ducks. The geese are numbered from 1 to n, and the i-th goose can complete the task numbered a_i. The geese decided to dispatch an interval of geese to complete the task, which means they will choose two integers l, r, satisfying $1 \le l \le r \le n$, and all geese numbered i which satisfy that $l \le i \le r$ will go to complete their task. Such a decision is called a plan, two plans are considred different if and only if the interval is different.

The ducks, will crouch at a task location, and kill all the geese trying to complete this task. They can not choose a task location which more than k geese will come, because they can't kill them all and there will be witness, they also can not choose a task location which less than k geese will come, becuase they will kill their teammates by mistake. In other words, they can only choose a task location where exactly k geese will come.

A plan is said to be dangerous if and only if there exist a task location that the ducks can ambush. Please help the geese to count how many plans are **not dangerous** for the geese. Please notice that the geese do not have to complete all the tasks with the plan.

Input

The first line contains two integers n, k ($1 \le n, k \le 10^6$).

The second line contains n integers, the i-th integer a_i ($1 \le a_i \le 10^6$) denotes the task number of the goose numbered i.

Output

Output one line containing one integer, denoting the answer.

Examples

standard input	standard output
6 2 1 2 2 1 3 3	10
6 1 1 2 3 4 5 6	0