

158A - Next Round

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1 Problem

Problem Description : <https://codeforces.com/problemset/problem/158/A>

2 Objective

"Contestant who earns a score equal to or greater than the k -th place finisher's score will advance to the next round, as long as the contestant earns a positive score..." — an excerpt from contest rules.

A total of n participants took part in the contest ($n \geq k$), and you already know their scores. Calculate how many participants will advance to the next round.

Input

The first line of the input contains two integers n and k ($1 \leq k \leq n \leq 50$) separated by a single space.

The second line contains n space-separated integers a_1, a_2, \dots, a_n ($0 \leq a_i \leq 100$), where a_i is the score earned by the participant who got the i -th place. The given sequence is non-increasing (that is, for all i from 1 to $n - 1$ the following condition is fulfilled: $a_i \geq a_{i+1}$).

Output

Output the number of participants who advance to the next round.

3 Solution

To solve this question, we just need to create a variable to store the numbers in the $k-1$ array indices. then we use a loop to check each array number, whether the number in the array is more than 0, and more than or equal to the number in the array index $k-1$. we count it as the correct score.

4 Code

```
#include <bits/stdc++.h>
using namespace std;
int main(){
    int a, b, cnt = 0;
    cin >> a >> b;
    int nums[a];
    for (int i = 0; i < a; i++){
        cin >> nums[i];
    }
    int core = nums[b - 1];
    for (int i = 0; i < a; i++){
        if (nums[i] > 0 && nums[i] >= core)
            cnt++;
    }
    cout << cnt;
    return 0;
}
```