



Angry Professor

by devuy11

Problem

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A Discrete Mathematics professor has a class of N students. Frustrated with their lack of discipline, he decides to cancel class if fewer than K students are present when class starts.

Given the arrival time of each student, determine if the class is canceled.

Input Format

The first line of input contains T , the number of test cases.

Each test case consists of two lines. The first line has two space-separated integers, N (students in the class) and K (the cancelation threshold). The second line contains N space-separated integers (a_1, a_2, \dots, a_N) describing the arrival times for each student.

Note: Non-positive arrival times ($a_i \leq 0$) indicate the student arrived early or on time; positive arrival times ($a_i > 0$) indicate the student arrived a_i minutes late.

Constraints

- $1 \leq T \leq 10$
- $1 \leq N \leq 1000$
- $1 \leq K \leq N$
- $-100 \leq a_i \leq 100$, where $i \in [1, N]$

Output Format

For each test case, print the word YES if the class is canceled or NO if it is not.

Note

If a student arrives exactly on time ($a_i = 0$), the student is considered to have entered before the class started.

Sample Input

```
2
4 3
-1 -3 4 2
4 2
0 -1 2 1
```

Sample Output

```
YES
NO
```

Explanation

For the first test case, $K = 3$. The professor wants at least 3 students in attendance, but only 2 have arrived on time (-3 and -1). Thus, the class is canceled.

For the second test case, $K = 2$. The professor wants at least 2 students in attendance, and there are 2 who have arrived on time (0 and -1). Thus, the class is *not* canceled.



Submissions: 115337



Max Score: 20

Difficulty: Easy

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[If - Else statements](#)[More](#)Current Buffer (saved locally, editable)  

C#



```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static void Main(String[] args) {
8         int t = Convert.ToInt32(Console.ReadLine());
9         for(int a0 = 0; a0 < t; a0++){
10             string[] tokens_n = Console.ReadLine().Split(' ');
11             int n = Convert.ToInt32(tokens_n[0]);
12             int k = Convert.ToInt32(tokens_n[1]);
13             string[] a_temp = Console.ReadLine().Split(' ');
14             int[] a = Array.ConvertAll(a_temp, Int32.Parse);
15
16             int alumnos_temprano = 0;
17             for (int i = 0; i < n; i++)
18             {
19                 if (a[i] <= 0)
20                 {
21                     alumnos_temprano++;
22                 }
23             }
24
25             if (alumnos_temprano >= k)
26             {
27                 Console.WriteLine("NO");
28             }
29             else
30             {
31                 Console.WriteLine("YES");
32             }
33         }
34     }
35 }
36
37 }
38
39 }
```

Line: 16 Col: 13

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

Congrats, you solved this challenge!

✓ Test Case #0
✓ Test Case #3
✓ Test Case #6
✓ Test Case #9

✓ Test Case #1
✓ Test Case #4
✓ Test Case #7
✓ Test Case #10

✓ Test Case #2
✓ Test Case #5
✓ Test Case #8
✓ Test Case #11

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