



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.

[f](#) [t](#) [in](#)Submissions: [141466](#)

Max Score: 20



Difficulty: Easy



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Java 7  

```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         Scanner in = new Scanner(System.in);
11         int t = in.nextInt();
12         for(int a0 = 0; a0 < t; a0++){
13             int n = in.nextInt();
14             int k = in.nextInt();
15             int a[] = new int[n];
16             for(int a_i=0; a_i < n; a_i++){
17                 a[a_i] = in.nextInt();
18             }
19         }
20     }
21 }
22
```

Line: 1 Col: 1

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