H   🏠 **Domains**   🛡 **Contests**   🏅 **Rank**   🏆 **Leaderboard**   💼 **Jobs**   🔍

Badge Progress **(Details)**   **Points: 126.17 Rank: 162207**

Angry Professor

H **by devuy11**

Problem	Submissions	Leaderboard	Discussions	Editorial	Topics

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 $(a_1, a_2, \ldots, a_N)$ 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

Submissions: 111335

Max Score: 20

Difficulty: Easy

Rate This Challenge:

☆ ☆ ☆ ☆ ☆

Need Help?

If - Else statements

More

Current Buffer (saved locally, editable)

Python 2

```python
#!/bin/python

import sys


t = int(raw_input().strip())
for a0 in xrange(t):
    n,k = raw_input().strip().split(' ')
    n,k = [int(n),int(k)]
    a = map(int,raw_input().strip().split(' '))
    count=0
    for i in range(0,n):
        if a[i]<=0:
            count = count+1
    if count<k:
        print("YES")
    else:
        print("NO")
```

Line: 18 Col: 18

Upload Code as File   ☐ **Test against custom input**   Run Code   Submit Code

Congrats, you solved this challenge!

✔ Test Case #0   ✔ Test Case #1   ✔ Test Case #2

✔ Test Case #3   ✔ Test Case #4   ✔ Test Case #5

✔ Test Case #6   ✔ Test Case #7   ✔ Test Case #8

✔ Test Case #9   ✔ Test Case #10   ✔ Test Case #11

Next Challenge

Join us on IRC at #hackerrank on freenode for hugs or bugs.

Contest Calendar | Interview Prep | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature