TC2017 Análisis y Diseño de Algoritmos
Momento 2E – Angry Professor (hackerrank)
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Forma de Trabajo: *Individual*.
Forma de Entrega: Subir a Blackboard el código de tu solución y un archivo con la pantalla de Aceptado en la plataforma de hackerrank

***El presente problema pertenece a* hackerrank Online Judge (https://www.hackerrank.com/)**

Angry Professor

URL: https://www.hackerrank.com/challenges/angry-professor

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, … , a_N) describing the arrival times for each student.

Note: Non-positive arrival times ($a_i < 0$) 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 Input

YES
NO