A Discrete Mathematics professor has a class of students. Frustrated with their lack of discipline; the professor decides to cancel class if fewer than some number of students are present when class starts. Arrival times go from on time ( $arrivalTime \leq 0$ ) to arrived late (arrivalTime > 0).

Given the arrival time of each student and a threshhold number of attendees, determine if the class is cancelled.

#### Example

$$n = 5$$
  
 $k = 3$   
 $a = [-2, -1, 0, 1, 2]$ 

The first 3 students arrived on. The last 2 were late. The threshold is 3 students, so class will go on. Return YES.

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.

### **Function Description**

Complete the angryProfessor function in the editor below. It must return YES if class is cancelled, or NO otherwise.

angryProfessor has the following parameter(s):

- int k: the threshold number of students
- int a[n]: the arrival times of the n students

Returns

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#### Returns

. string either VES or NO

#### 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 and k, the number of students (size of a) and the cancellation threshold.

The second line contains n space-separated integers ( $a[1],a[2],\ldots,a[n]$ ) that describe the arrival times for each student.

## Constraints

- $1 \le t \le 10$
- $1 \le n \le 1000$
- $1 \le k \le n$
- $-100 \le a[i] \le 100, where i \in [1, \dots n]$

# Sample Input















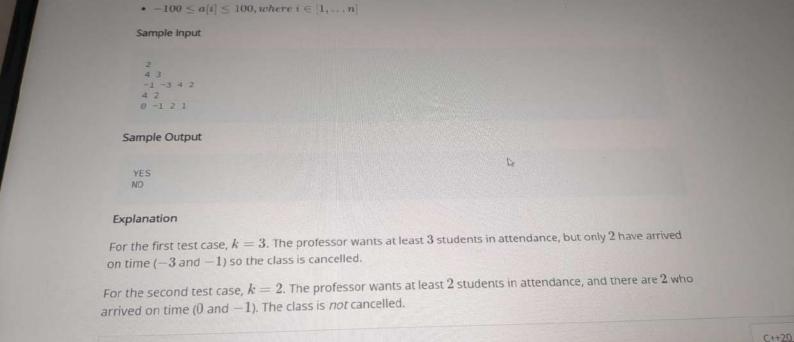












•  $1 \le k \le n$ 

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