

## C. Sports Betting

time limit per test: 2 seconds  
memory limit per test: 256 megabytes

The boarding process for various flights can occur in different ways: either by **bus** or through a **telescopic jet bridge**. Every day, exactly one flight is made from St. Petersburg to Minsk, and Vadim decided to demonstrate to the students that he always knows in advance how the boarding will take place.

Vadim made a bet with  $n$  students, and with the  $i$ -th student, he made a bet on day  $a_i$ . Vadim wins the bet if he correctly predicts the boarding process on both day  $a_i + 1$  and day  $a_i + 2$ .

Although Vadim does not know in advance how the boarding will occur, he really wants to win the bet **at least** with one student and convince him of his predictive abilities. Check if there exists a strategy for Vadim that allows him to **guarantee** success.

### Input

Each test contains multiple test cases. The first line contains the number of test cases  $t$  ( $1 \leq t \leq 10^4$ ). The description of the test cases follows.

The first line of each test case contains a single integer  $n$  ( $1 \leq n \leq 10^5$ ) — the number of students Vadim made bets with.

The second line of each test case contains  $n$  integers  $a_1, \dots, a_n$  ( $1 \leq a_i \leq 10^9$ ) — the days on which Vadim made bets with the students.

It is guaranteed that the sum of  $n$  over all test cases does not exceed  $10^5$ .

### Output

For each test case, output "Yes" (without quotes) if Vadim can **guarantee** convincing at least one student, and "No" otherwise.

You can output the answer in any case (upper or lower). For example, the strings "yEs", "yes", "Yes", and "YES" will be recognized as positive responses.

### Example

input	Copy
5	
4	
1 1 1 1	
3	
2 2 2	
5	
2 4 3 2 4	
8	
6 3 1 1 5 1 2 6	
1	
1000000000	
output	Copy
Yes	
No	
Yes	
No	
No	

### Note

In the first test case, Vadim needs to make at least one correct prediction about the boarding process on the second and third days. There are a total of 4 possible boarding scenarios for these days, so Vadim can give all 4 students different predictions and guarantee that at least one of them will be correct.

In the second test case, Vadim only made bets with three students and cannot guarantee that he will provide at least one of them with a correct prediction.

### Codeforces Round 1021 (Div. 2)

Finished

Practice



### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

### → Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

### → Submit?

Language: GNU G++23 14.2 (64 bit, ms)

Choose file: Choose File No file chosen

Submit

### → Last submissions

Submission	Time	Verdict
<a href="#">317464595</a>	Apr/27/2025 16:34	Accepted

### → Problem tags

math sortings

No tag edit access

### → Contest materials

- Announcement
- Tutorial (ru)

Supported by

