



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

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 ($1 \le t \le 10^4$). The description of the test cases follows.

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

The second line of each test case contains n integers a_1, \ldots, a_n $(1 \le a_i \le 10^9)$ — 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	Сору
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	Сору
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

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Practice



→ Virtual participation

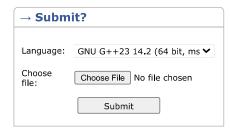
Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a 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

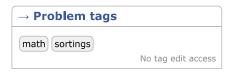
→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest



Jast submissions Submission Time Verdict 317464595 Apr/27/2025 16:34 Accepted





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