B. Tickets

time limit per test: 1 second

memory limit per test: 256 megabytes

Nour is a big fan of Ahly football team. One day he went to the club to book a ticket for the next match. After he booked the ticket he waited for the bus to take him home, so he started playing a game with his friend. In one operation a person with ID x enters the queue, or the one standing at the beginning of the queue books his ticket and leaves. Nour will guess the ID of the one who is leaving the queue, and for each guess, you have to tell whether he guessed correctly or not.

$1\ x$ – means that person with ID x enters the queue.

$2\ x$ – means that a person left the queue and Nour guessed that his ID is x.

Assume that Nour always guesses an ID that has already entered the queue and he will never guess unless there is at least one person in the queue and Nour guesses at least one time.

You have to tell Nour if he guesses right or wrong.

Input

The first Line of input contains one integer n $(1 \leq n \leq 10^5)$ the number of operations.

The next n lines contain two integers a and b $(1 \leq a \leq 2), (1 \leq b \leq 10^6)$, the type of the operation and the ID.

Output

When Nour guesses tell him "Yes" if he guesses right, "No" if he guesses wrong in a single line.

Examples

input Copy

```
5
1 10
1 20
2 20
1 30
2 20
```

output Copy

```
No
Yes
```

input Copy

```
7
1 20
2 20
1 30
1 10
1 50
2 30
2 50
```

output Copy

```
Yes
Yes
No
```

ICPC Assiut University Training - Juniors Phase 1 Sheets-2022

Public

Participant

→ Group Contests

- Juniors Phase 1 Practice #5 (Bitmask, Bitset, Bits)
- Juniors Phase 1 Practice #4 (Binary search , Two pointers)
- Juniors Phase 1 Practice #3 (STL 2)
- Juniors Phase 1 Practice #2 (STL 1)
- Juniors Phase 1 Practice #1 (Prefix sum , Frequency Array)

Juniors Phase 1 Practice #2 (STL 1)

Finished

Practice

→ About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the link.

→ 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

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
281282915	Sep/15/2024 00:40	Accepted