4/27/25, 10:39 PM C - 403 Forbidden

Contest Duration: 2025-04-27(Sun) 08:00 (http://www.timeanddate.com/worldclock/fixedtime.html? iso=20250427T2100&p1=248) - 2025-04-27(Sun) 09:40 (http://www.timeanddate.com/worldclock/fixedtime.html? iso=20250427T2240&p1=248) (local time) (100 minutes) Back to Home (/home)

Tasks (/contests/abc403/tasks) ↑ Top (/contests/abc403)

**?** Clarifications (/contests/abc403/clarifications)

✓ Submit (/contests/abc403/submit?taskScreenName=abc403 c) **≡** Results **▼** 

**↓** Standings (/contests/abc403/standings)

↓ Virtual Standings (/contests/abc403/standings/virtual)

Custom Test (/contests/abc403/custom\_test) Editorial (/contests/abc403/editorial)

Discuss (https://codeforces.com/blog/entry/142272)

## C - 403 Forbidden Editorial (/contests/abc403/tasks/abc403\_c/editorial)

/ ##

Time Limit: 2 sec / Memory Limit: 1024 MB

Score: 300 points

#### **Problem Statement**

There are N users on WAtCoder, numbered from 1 to N, and M contest pages, numbered from 1 to M. Initially, no user has view permission for any contest page.

You are given Q queries to process in order. Each query is of one of the following three types:

- 1 X Y: Grant user X view permission for contest page Y.
- 2  $\times$ : Grant user X view permission for all contest pages.
- 3 X Y: Answer whether user X can view contest page Y.

It is possible for a user to be granted permission for the same contest page multiple times.

#### **Constraints**

- $1 < N < 2 \times 10^5$
- $1 < M < 2 \times 10^5$
- $1 \le Q \le 2 \times 10^5$
- 1 < X < N

2025-04-27 (Sun) 22:39:15 -04:00

- $1 \le Y \le M$
- All input values are integers.

## Input

The input is given from Standard Input in the following format:

Each query i is in one of the following formats:

```
1 X Y

2 X

3 X Y
```

### **Output**

For each query of the third type, print  ${\tt Yes}$  if user X can view contest page Y, otherwise print  ${\tt No}$ , each on its own line.

```
Sample Input 1 Copy

2 3 5
1 1 2
3 1 1
3 1 2
2 2
3 2 3
```

# Sample Output 1 Copy

```
No
Yes 2025-04-27 (Sun)
Yes 22:39:15-04:00
```

4/27/25, 10:39 PM C - 403 Forbidden

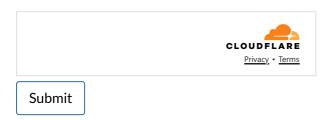
• In the first query, user 1 is granted permission to view contest page 2.

- At the second query, user 1 can view only page 2; they cannot view page 1, so print No.
- At the third query, user 1 can view page 2, so print Yes.
- In the fourth query, user 2 is granted permission to view all pages.
- At the fifth query, user 2 can view pages 1, 2, 3; they can view page 3, so print Yes.



2025-04-27 (Sun) 22:39:15 -04:00 4/27/25, 10:39 PM C - 403 Forbidden

- \* at most 512 KiB
- \* Your source code will be saved as Main. extension.



#### #telegram)

url=https%3A%2F%2Fatcoder.jp%2Fcontests%2Fabc403%2Ftasks%2Fabc403\_c%3Flang%3Den&title=C%20-

Rule (/contests/abc403/rules) Glossary (/contests/abc403/glossary)

Terms of service (/tos) Privacy Policy (/privacy) Information Protection Policy (/personal) Company (/company)

FAQ (/faq) Contact (/contact)

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2025-04-27 (Sun) 22:39:15 -04:00