

## Coding Arena



A B C D E F G

### Problem : Online Communities - Even Groups

In a social network, online communities refer to the group of people with an interest towards the same topic. People connect with each other in a social network. A connection between Person **I** and Person **J** is represented as **C I J**. When two persons belonging to different communities connect, the net effect is merger of both communities which I and J belonged to.

We are only interested in finding out the communities with the member count being an even number. Your task is to find out those communities.

#### Input Format:

Input will consist of three parts, viz.

1. The total number of people on the social network (**N**)
2. Queries

- **C I J**, connect I and J
- **Q O O**, print the number of communities with even member-count

-1 will represent end of input.

#### Output Format:

For each query Q, output the number of communities with even member-count

#### Constraints:

$$1 \leq N \leq 10^6$$

$$1 \leq I, J \leq N$$

#### Sample Input and Output

SNo.	Input	Output
1	5 Q 0 0 C 1 2 Q 0 0 C 2 3 Q 0 0 C 4 5 Q 0 0 -1	0 1 0 1

#### Explanation:

For first query there are no members in any of the groups hence answer is 0.

After C 1 2, there is a group (let's take it as G1) with 1 and 2 as members hence total count at this moment is 1.

After C 2 3 total members in G1 will become {1, 2, 3} hence there are no groups with even count.

After C 4 5 there formed a new group G2 with {4, 5} as members, hence the total groups with even count is 1.

#### Note:

Please do not use package and namespace in your code. For object oriented languages your code should be written in one class.

#### Note:

Participants submitting solutions in C language should not use functions from <conio.h> / <process.h> as these files do not exist in gcc

Time Left

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 hr min sec

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**Submit Answer**

☐ I, **BASANT BHALA** confirm that the answer submitted is my own.

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