



Unionfind

[AC一覽](#)

Problem Statement

We have an undirected graph with N vertices and 0 edges. Process the following Q queries in order:

- $t_i = 0 \ u_i \ v_i$: Add an edge (u, v) .
- $t_i = 1 \ u_i \ v_i$: If vertices u, v are connected, print 1. Otherwise, print 0.

Constraints

- $1 \leq N \leq 200,000$
- $1 \leq Q \leq 200,000$
- $0 \leq u_i, v_i < N$

Input

```
 $N \ Q$   
 $t_1 \ u_1 \ v_1$   
 $t_2 \ u_2 \ v_2$   
 $:$   
 $t_Q \ u_Q \ v_Q$ 
```

Sample

1

```
4 7  
1 0 1  
0 0 1  
0 2 3  
1 0 1  
1 1 2  
0 0 2  
1 1 3
```

```
0  
1  
0  
1
```

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Timelimit: 5 secs