Certify

# **Queries Again**

Problem Submissions Leaderboard Discussions

#### **Problem Statement**

You have a doubly linked list which is **empty** initially. Then you will be given **Q** queries. In each query you will be given two values **X** and **V**.

- You need to insert the value **V** at index **X**. Assume that index starts from 0.
- After that for each query you need to print the linked list from left to right and right to left.
- If the index is invalid, then print "Invalid".

Note: You must use Doubly Linked List, otherwise you will not get marks.

## **Input Format**

- First line will contain Q.
- Next Q lines will contain X and V.

#### Constraints

- 1. 1 <= **Q** <= 1000;
- 2. 0 <= X <= 1000;
- 3. 0 <= **V** <= 1000

### **Output Format**

- For each query print the linked list from left to right and right to left or print "Invalid" as asked.
- Print "L->" before printing the linked list from left to right.
- Print "R -> " before printing the linked list from right to left.

## Sample Input 0

- 5
- 1 10
- 0 10
- 1 20
- 3 302 30

#### Sample Output 0

Invalid

- L -> 10
- R -> 10

```
L -> 10 20
R -> 20 10
Invalid
L -> 10 20 30
R -> 30 20 10
```

## Sample Input 1

```
10
0 10
1 20
0 30
1 40
6 50
0 60
4 70
4 80
2 90
1 100
```

## Sample Output 1

```
L -> 10
R -> 10
L -> 10 20
R -> 20 10
L -> 30 10 20
R -> 20 10 30
L -> 30 40 10 20
R -> 20 10 40 30
Invalid
L -> 60 30 40 10 20
R -> 20 10 40 30 60
L -> 60 30 40 10 70 20
R -> 20 70 10 40 30 60
L -> 60 30 40 10 80 70 20
R -> 20 70 80 10 40 30 60
L -> 60 30 90 40 10 80 70 20
R -> 20 70 80 10 40 90 30 60
L -> 60 100 30 90 40 10 80 70 20
R -> 20 70 80 10 40 90 30 100 60
```

Submissions: 608
Max Score: 20
Difficulty: Easy
Rate This Challenge:
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