PROBLEM STATUS CONTEST ~ **HOME**

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Team forming contest 5 - 2013 batch

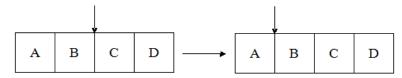


Description

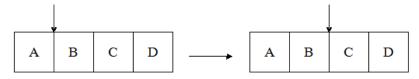
You are in charge of data in a company, so you are called "Data Handler". Different from the data in computer, the data you have are really in huge volume, and each data contains only one integer. All the data are placed in a line from left to right. There are two "hand" to handle the data, call hand "L" and hand "R". Every hand is between two adjacent data or at the end of the data line.

In one day, the company gives you many commands to handle these data, so you should finish them one by one. At the beginning, there are N data, and hand "L" and "R" are in some positions. Each command is one the following formats:

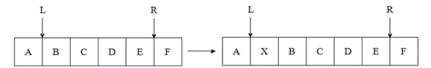
(1)MoveLeft L/R: it means that you should move the hand "L"/"R" left one data unit;



(2)MoveRight L/R: it means that you should move the hand "L"/"R" right one data unit;



(3) Insert L X: it means that you should insert the data that contains X at the right of the hand "L";



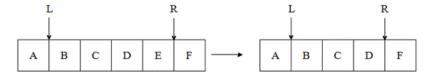
(4)Insert R X: it means that you should insert the data that contains X at the left of the hand "R";



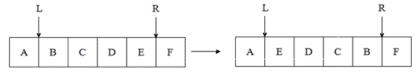
(5)Delete L: it means that you should delete the one data at the right of the hand "L";



(6)Delete R: it means that you should delete the one data at the left of the hand "R";



(7)Reverse: it means that you should reverse all the data between hand "L" and hand "R".



After finish all the commands, you should record all the data from left to right. So please do it.

Input

The first line contains an integer $T(1 \le T \le 10)$, the number of test cases.

It is guaranteed that there are always some data between hand "L" and "R", and if the hand is at the left/right end of the data line, it will not receive the command MoveLeft/MoveRight.

Because of large input, please use scanf instead of cin.

Output

For each test case, output the integers in the data from left to right in one line, separated in a single space. Because of large output, please use printf instead of cout.

Sample Input

```
2
5
1 2 3 4 5
1 5 5
MoveLeft R
Insert R 6
Reverse
Delete R
Insert L 7
```

```
5
6536 5207 2609 6604 -4046
1 3
5
Delete L
Insert R -9221
Reverse
Delete L
MoveRight L
```

Sample Output

```
7 6 4 3 2 5
2609 5207 6604 -4046
```

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