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Editor

Time Limit: 3000/2000 MS (Java/Others) Memory Limit: 131072/131072 K (Java/Others)
Total Submission(s): 3372 Accepted Submission(s): 937

Problem Description

You are going to implement the most powerful editor for integer sequences.

The sequence is empty when the editor is initialized.

There are 5 types of instructions.

- I x Insert x after the cursor.
- D Delete the element before the cursor.
- L Move the cursor left unless it has already been at the begin.
- R Move the cursor right unless it has already been at the end.
- Q k Suppose that the current sequence **BEFORE** the cursor is $\{a_1, a_2, \dots, a_n\}$. Find $\max_{1 \le i \le k} S_i$ where $S_i = a_1 + a_2 + \dots + a_i$.

Input

The input file consists of multiple test cases. For each test case:

The first line contains an integer Q, which is the number of instructions. The next Q lines contain an instruction as described above.

 $\left(1 \leq Q \leq 10^6, \, |x| \leq 10^3 \text{ for I instruction, } 1 \leq k \leq n \text{ for Q instruction}\right)$

Output

For each Q instruction, output the desired value.

Sample Input

8 I 2 I -1 I 1 Q 3 L D R

Sample Output

3				

```
The following diagram shows the status of sequence after each instruction:
```

Source

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Recommend

zhuyuanchen520 | We have carefully selected several similar problems for you: 6193 6192 6191 6190 6189

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