2017/9/17 3580 -- SuperMemo

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SuperMemo

Time Limit: 5000MS Memory Limit: 65536K

Total Submissions: 16618 Accepted: 5238

Case Time Limit: 2000MS

Language: Default ▼

Description

Your friend, Jackson is invited to a TV show called SuperMemo in which the participant is told to play a memorizing game. At first, the host tells the participant a sequence of numbers, $\{A_1, A_2, \dots A_n\}$. Then the host performs a series of operations and queries on the sequence which consists:

- 1. $ADD \times yD$: Add D to each number in sub-sequence $\{A_x \dots A_y\}$. For example, performing " $ADD \times 241$ " on $\{1, 2, 3, 4, 5\}$ results in $\{1, 3, 4, 5, 5\}$
- 2. REVERSE x y: reverse the sub-sequence $\{A_x \dots A_y\}$. For example, performing "REVERSE 2 4" on $\{1, 2, 3, 4, 5\}$ results in $\{1, 4, 3, 2, 5\}$
- 3. REVOLVE x y T: rotate sub-sequence $\{A_x \dots A_v\}$ T times. For example, performing "REVOLVE 2 4 2" on $\{1, 2, 3, 4, 5\}$ results in $\{1, 3, 4, 2, 5\}$
- 4. INSERT x P: insert P after A_x . For example, performing "INSERT 2 4" on $\{1, 2, 3, 4, 5\}$ results in $\{1, 2, 4, 3, 4, 5\}$
- 5. DELETE x: delete A_x . For example, performing "DELETE 2" on $\{1, 2, 3, 4, 5\}$ results in $\{1, 3, 4, 5\}$
- 6. MIN x y: query the participant what is the minimum number in sub-sequence $\{A_x \dots A_y\}$. For example, the correct answer to "MIN 2 4" on $\{1, 2, 3, 4, 5\}$ is 2

To make the show more interesting, the participant is granted a chance to turn to someone else that means when Jackson feels difficult in answering a query he may call you for help. You task is to watch the TV show and write a program giving the correct answer to each query in order to assist Jackson whenever he calls.

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Input

The first line contains n ($n \le 100000$).

The following n lines describe the sequence.

Then follows M ($M \le 100000$), the numbers of operations and queries.

The following M lines describe the operations and queries.

Output

For each "MIN" query, output the correct answer.

Sample Input

```
5
1
2
3
4
5
2
ADD 2 4 1
MIN 4 5
```

Sample Output

5

Source

POJ Founder Monthly Contest – 2008.04.13, Yao Jinyu

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