

# Max's Anger Contest Series 2 P1 - Directed Anger

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**Time limit:** 1.0s   **Memory limit:** 256M

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After Max successfully completed his ~~useless~~ List II Communication credit last term, he lost his sense of direction.

He only remembers the direction he was facing originally,  $D$ ; how many times he turned 90 degrees left,  $L$ ; and how many times he turned 90 degrees right,  $R$ .

Can you tell Max what direction he is facing after all of those turns?

## Constraints

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$D$  is one of the four cardinal directions: `N`, `S`, `E`, or `W`.

$0 \leq L, R \leq 100$ .

## Input Specification

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The first line will contain  $D$ , the direction he was facing.

The second line will contain  $L$ , the number of times he turned 90 degrees left.

The third line will contain  $R$ , the number of times he turned 90 degrees right.

## Output Specification

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Output the direction after all the turns have been completed.

## Sample Input 1

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```
S
2
1
```

## Sample Output 1

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```
E
```

## Sample Input 2

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N  
5  
0

## Sample Output 2

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W