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Dice Simulation AZ101

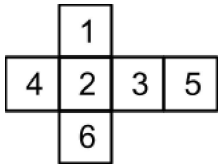
? Ask Doubt

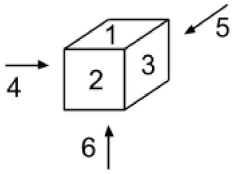
Time-Limit: 1 sec | Score: 0.00/100 | Difficulty :

Memory: 256 MB | Accepted Submissions: 100

Description

You are given a dice with different values on each face. Find the integer at the top of the face after the sequence of commands to roll the dice is performed. The dice is initially located as shown.





Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test case contains six space-separated integers A_i - values on each face.

The second line of each test case contains a string S - the sequence of commands.

Output Format

For each test case, print the integer at the top of the face after the sequence of commands to roll the dice is done.

Constraints

$1 \le T \le 10^6$

$1 \le A_i \le 10^7$

$1 \le |S| \le 10^6$

It is guaranteed that the sum of $|S|$ over all test cases does not exceed 10^6.

Sample Input 1

Copy

```
3
1 2 3 4 5 6
NE
```

C++14[GCC]

Submit

```
1
```