## 2020/21 CSEC-ASTU Competitive Programming CSEC-CPD Division 2, Contest, December 23, 2021

Sponsored by:- Atsnagn Kifle, Ashebir Wendmeneh

#### **Robot Instructions**

Input file: standard input Output file: standard output

Time limit: 1 second

You have a robot standing on the origin of x axis. The robot will be given some instructions. Your

task is to predict its position after executing all the instructions.

- **LEFT**: move one unit left (decrease p by 1, where p is the position of the robot before moving)
- **RIGHT**: move one unit right (increase p by 1)
- **SAME AS i**: perform the same action as in the i-th instruction. It is guaranteed that i is a positive

integer not greater than the number of instructions before this.

#### Input

The first line contains the number of test cases T (T  $\leq$  100). Each test case begins with an integer n

 $(1 \le n \le 100)$ , the number of instructions. Each of the following n lines contains an instruction.

#### Output

For each test case, print the final position of the robot. Note that after processing each test case, the

robot should be reset to the origin.

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### Example

Sample Input 1	Sample Output 1
2	1
3	-5
LEFT	
RIGHT	
SAME AS 2	
5	
LEFT	
SAME AS 1	
SAME AS 2	
SAME AS 1	
SAME AS 4	