Advanced Bitwise Operations

Problem Submissions Leaderboard Discussions

You have to implement bitwise Shifting/Rotation for a given binary string using doubly-linked-list. Note: You are not allowed to use any other data structure except for linked lists in this problem. And you are not allowed to covert the given bit string into decimal and operate on it.

Input Format

First line contains a bit string B (1 <= |B| <= 1000) which is the initial content of register.

Second line contains a single integer T (1 <= T <= 100) - Number of queries Each of the T queries resemble either of the following change to contents of register:

- LR: left rotation by 1 unit
- RR: right rotation by 1 unit
- LS: Left shift by 1 unit (Empty space filled with 0)
- RS: Right shift by 1 unit (Empty space filled with 0)
- INC: Increment by 1
- DEC: Decrement by 1

Constraints

1 <= |B| <= 1000 1 <= T <= 100

Output Format

Prints content of the register after all operations are completed. Ignore any out-carry.

Sample Input 0

```
11111001
4
LS
DEC
LR
INC
```

Sample Output 0

```
11100100
```

Submissions: 101
Max Score: 100
Difficulty: Easy

Rate This Challenge:

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Current Buffer (saved locally, editable) C

```c
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main() {

    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code