PROBLEM 1

Election II

Input File: `elecin.txt`
Output File: `elecout.txt`

Time and Memory Limits: 1 second, 1 GB

Election time is here again, and you are in charge of determining the outcome. There were N voters this year, each voting for one of three candidates: `A`, `B` or `C`. Which candidate received the most votes and therefore won the election? Or is there a tie this year?

Input

- The first line of input contains the integer N.
- The second line of input contains a string of N characters representing the votes.

Output

If some or all of the candidates are tied for the most votes, your program must output `T` (for tie). Otherwise, it must output the winner.

Sample Input 1

```
4
BBAC
```

Sample Output 1

```
B
```

Sample Input 2

```
7
BAAABAB
```

Sample Output 2

```
A
```

Sample Input 3

```
2
CB
```

Sample Output 3

```
T
```

Explanation

In the first sample input, `B` received the most votes:

- `A` received 1 vote.
- `B` received 2 votes.
- `C` received 1 vote.

In the second sample input, `A` received the most votes:

- `A` received 4 votes.
- `B` received 3 votes.
- `C` received 0 votes.

In the third sample input, `B` and `C` are tied for the most votes:

- `A` received 0 votes.
- `B` received 1 vote.
- `C` received 1 vote.

Subtasks & Constraints

For all subtasks:

- $2 \leq N \leq 100\,000$.
- Each character of the string is `A`, `B` or `C`.

Additionally:

- For Subtask 1 (50 marks), $N = 2$.
- For Subtask 2 (30 marks), each character of the string is `A` or `B`.
- For Subtask 3 (20 marks), no special constraints apply.