Duelist Card

Problem	Submissions	Discussions	Editorial

TC is a planet where there are all card games. It has become a rule in the TC world that all problems must be solved through card games. The inhabitants of planet TC, there are some of that are given unique abilities which are then called TCHolders. Denta is a **TCHolder** from a town called Duelist City. Once upon a time, a famous bandit named Faiz wanted to take over Duelist City. He also challenges the Duelist City to fight him in a card game that he has compiled. As a TCHolder, Denta couldn't let Faiz do whatever he wanted, so he accepted the challenge.

The card game system compiled by Faiz has a specific order, which is Push, Pop, Top, Max, and Min.

If Denta succeeds in carrying out all the orders given by Faiz then Denta will be the winner. But Denta was not good at remembering. Therefore he uses his unique ability that allows him to communicate with the inhabitants of planet earth. You as Denta's chosen partner on planet Earth have to help Denta.

Input Format

The first line input is a number and is the number of rounds that Denta and Faiz have to play. Then the next **n** lines are followed by the Faiz commands according to the decryption.

Constraints

$1 \leq N \leq 10000$

Output Format

For each testcase, output according to the description.

Sample Input 0

```
7
push 3
push 4
push 9
push 10
top
min
max
```

Sample Output 0

```
10
3
10
```

Approach:

1. Menyalin program stack yang sudah disediakan di *Github*
2. Memodifikasi struktur pada node dengan menambahkan integer baru, yaitu Max dan Min yang berfungsi untuk mencari nilai maksimum dan minimum pada value yang nanti akan ditambahkan pada list
3. Memodifikasi *Push* function, dimana nilai node max dan min sama dengan value (nilai yang ditambahkan di list)
4. Pada *Push* function jika nilai *value* lebih besar daripada list->head->max, maka nilai node max tersebut menjadi value
5. Sebaliknya untuk mencari nilai minimum pada *Push* function