

Deyon's New Maid

locked

Problem

Submissions

Discussions

After successfully catching Paiz, Deyon decided to force Paiz to help him. Deyon has several uniquely-numbered boxes that are stored according to AVL Tree's principles. Now, it is Paiz's job to store and search the boxes according to Deyon's whim.

Since you feel sorry for Paiz, you decided to code a program to help Paiz.

Input Format

Each day, Deyon will tell Paiz to do T things.

Paiz could only understand two commands, those are

- Store X , store a box numbered X
- Find X , find a box numbered X

If Deyon happens to tell Paiz to do something else, he will be confused.

Constraints

$$1 \leq T \leq 200000$$

$$1 \leq i \leq 10^6$$

Output Format

If Paiz is told to Find X ,

- If a box numbered X exists, print The box is at height i where i is the height
- If there is no such box, print There is no such box

If Paiz is confused (the command is other than Store or Find),

- Print Gomenasai, Deyon-sama. I am confused :(

Sample Input 0

```
11
Store 100
Store 74
Find 100
Find 70
Store 152
Store 21
Store 33
Find 100
Find 21
Find 1
Look 2
```

Sample Output 0

```
The box is at height 2
There is no such box
The box is at height 3
The box is at height 1
There is no such box
Gomenasai, Deyon-sama. I am confused :(
```



Submissions: 6

Max Score: 1

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