

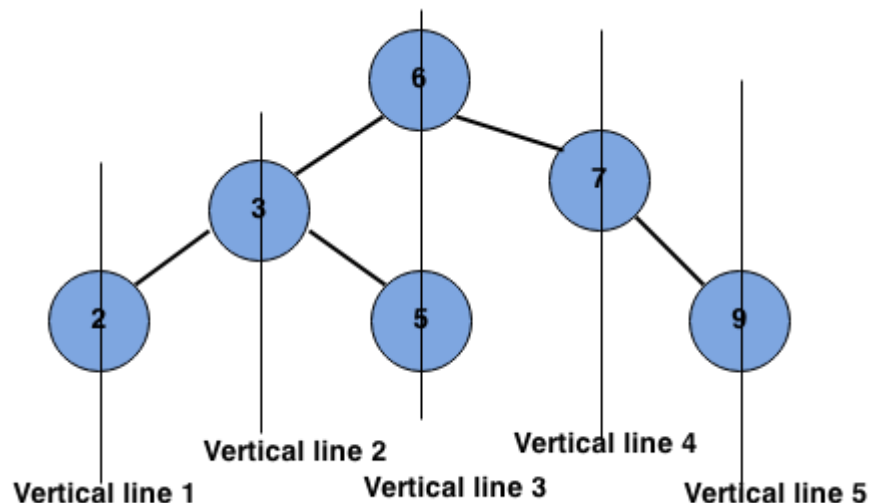
Modul 3

Case Number.143

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Description

Detective Marissa is on a case of solving the greatest mystery known to mankind, some even called it an unsolvable phenomenon, it is something called love. In this case Det.Marissa have to solve the riddle from subject 'Nadir'. The subject said the answer to this mystery is locked behind a safe and to open it and it requires a password. The password used is to count sum of all the number in the same column of AVL Tree nodes vertically. Read it from leftmost to rightmost

**Input Format**

The first line consists of **N**.

The next **N**-lines consist of **A** (the command insert or print). If the command is insert, then also input the value of **X** (how many data to be inserted).

Constraints

$$1 \leq N \leq 10000$$

$$1 \leq X \leq 10000$$

Output Format

Output the sum of data in the same column if the command is solve.

Sample Input 0

```
9
insert 20
insert 10
insert 15
insert 9
insert 6
insert 25
insert 24
insert 26
solve
```

Sample Output 0

```
6 9 45 24 25 26
```

Sample Input 1

```
11
insert 19
insert 14
insert 39
insert 11
solve
insert 24
insert 36
insert 31
insert 21
insert 38
solve
```

Sample Output 1

```
11 14 19 39
11 35 43 105 39
```