

Problem

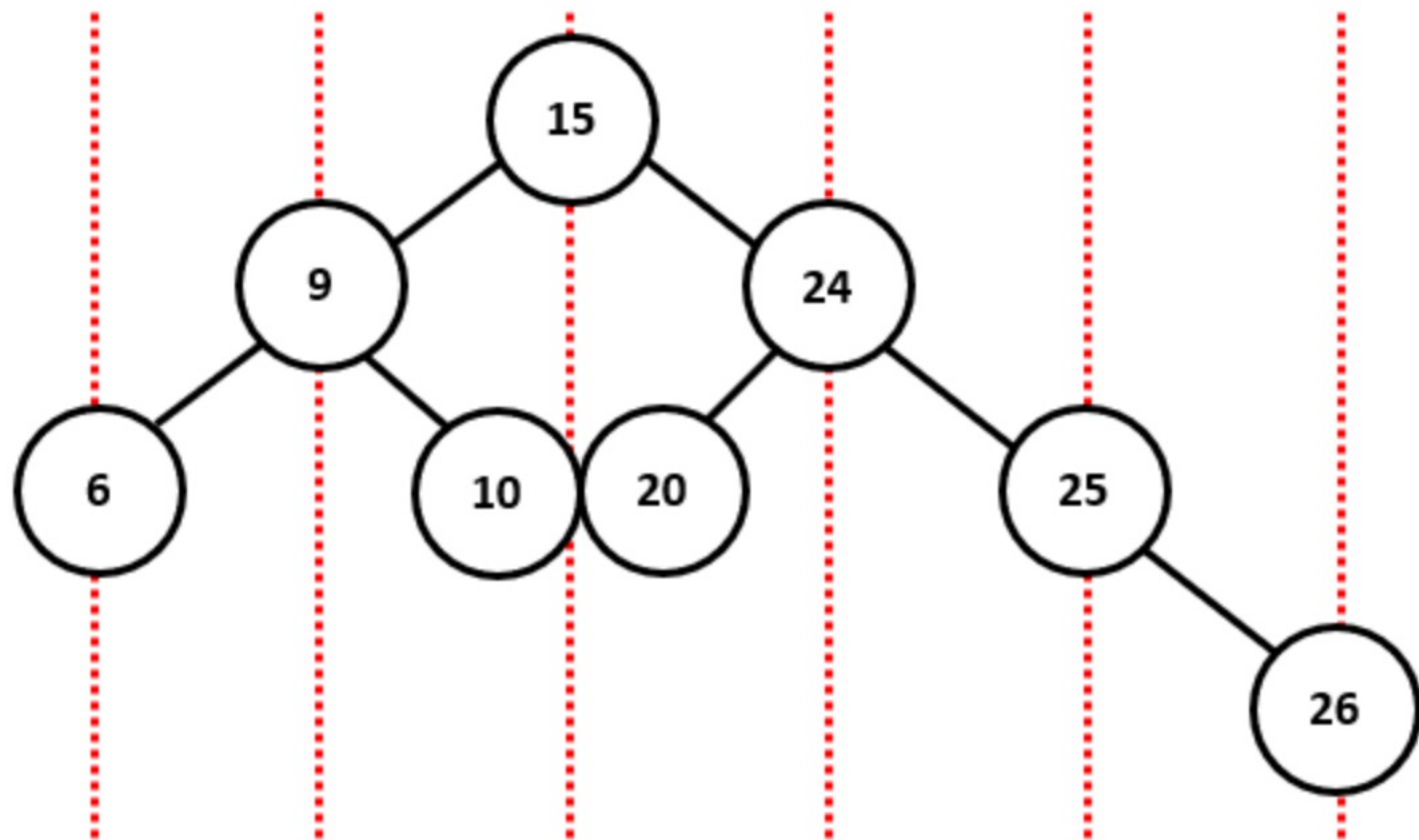
Submissions

Discussions

The students in IUP Data Structures Class are given a task to create an 🌳 AVL Tree 🌳. The tree contains of a lot data. They can insert a data by typing the command `insert x`, where x is the value of data to be inserted to the Tree.

After the assignment is submitted, they are given a follow-up task to find the sum of all data in the same column, from leftmost to rightmost. The sum value is then printed, if the students type the command `print`.

Refer to the illustration below for the column specification in Sample Input 0:



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

- $1 < N < 10000$
- $1 < X < 10000$

Output Format

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

Sample Input 0

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

Sample Output 0

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

Sample Input 1

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

Sample Output 1

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



Submissions: 10

Max Score: 1

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