Compile

```
shuqiny2@circinus-46 23:51:25 ~/253P/HW5/src
$ javac AVLTreeImpl.java
shuqiny2@circinus-46 23:51:32 ~/253P/HW5/src
$ java AVLTreeImpl
sample input
```

input:

insert 50 insert 25 insert 10 insert 5 insert 7 insert 3 insert 30 insert 20 insert 8 insert 15 find 10 find 12 delete 4 delete 20 find 22 delete 50 find 30 delete 10 find 7

50 (inserted) 50 25 (inserted) 50 25 10 (inserted) 25 10 5 (inserted) 25 10 5 7 (inserted) 25 7 5 3 (inserted) 25 50 30 (inserted) 10 25 20 (inserted) 10 7 8 (inserted) 10 25 20 15 (inserted) 10 (found) 10 25 20 15 (not found!) 10 7 5 3 (not found!) 10 25 20 (deleted) 10 25 15 (not found!) 10 25 50 (deleted) 10 25 30 (found) 10 (deleted)

15

7 (found)

output:

input: insert 1 insert 2 insert 3 insert 4 insert 8 insert 7 insert 6 insert 5 find 6 find 9 delete 4 delete 20 find 2 delete 5

find 3

1 (inserted) 1 2 (inserted) 1 2 3 (inserted) 3 4 (inserted) 3 4 8 (inserted) 4 8 7 (inserted) 4 8 7 6 (inserted) 7 6 5 (inserted) 4 7 6 (found) 4 7 8 (not found!) 3 4 (deleted) 2 3 7 8 (not found!) 3 2 (found) 3 6 5 (deleted) 3 (found) 2 1 (deleted)

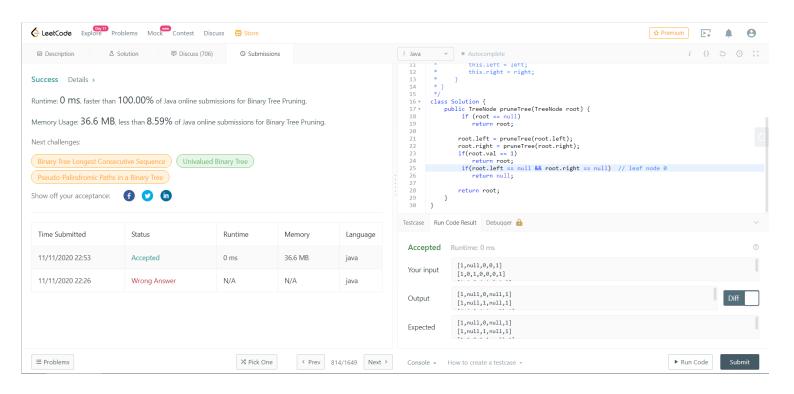
output:

input: insert 1 insert 2 insert 3 insert 4 find 4 delete 4 delete 3 delete 2 delete 1 find 2 insert 2 find 2

```
output:
    1 (inserted)
    1 2 (inserted)
    1 2 3 (inserted)
    2 3 4 (inserted)
    2 3 4 (found)
    2 3 4 (deleted)
    1 2 3 (deleted)
    1 2 (deleted)
    1 (deleted)
    (not found!)
    2 (inserted)
    2 (found)
```

```
1 (inserted)
1 2 (inserted)
1 2 3 (inserted)
2 3 4 (inserted)
2 3 4 (found)
2 3 4 (deleted)
1 2 3 (deleted)
1 2 (deleted)
1 (deleted)
(not found!)
2 (inserted)
2 (found)
```

Leetcode 814



Leetcode 310

