

Our Solution(s)

Run Code

Solution 1

Solution 2

1

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2

3

class BST {

4

constructor(value) {

5

this.value = value;

6

this.left = null;

7

this.right = null;

8

}

9

10

// Average: O(log(n)) time | O(log(n)) space

11

// Worst: O(n) time | O(n) space

12

insert(value) {

13

if (value < this.value) {

14

if (this.left === null) {

15

this.left = new BST(value);

16

} else {

17

this.left.insert(value);

18

}

19

} else {

20

if (this.right === null) {

21

this.right = new BST(value);

22

} else {

23

this.right.insert(value);

24

}

25

}

26

return this;

27

}

28

29

// Average: O(log(n)) time | O(log(n)) space

30

// Worst: O(n) time | O(n) space

31

contains(value) {

32

if (value < this.value) {

33

if (this.left === null) {

Your Solutions

Run Code

Solution 1

Solution 2

Solution 3

1

// Do not edit the class below except for

2

// the insert, contains, and remove methods.

3

// Feel free to add new properties and methods

4

// to the class.

5

class BST {

6

constructor(value) {

7

this.value = value;

8

this.left = null;

9

this.right = null;

10

}

11

12

insert(value) {

13

// Write your code here.

14

// Do not edit the return statement of this method.

15

return this;

16

}

17

18

contains(value) {

19

// Write your code here.

20

}

21

22

remove(value) {

23

// Write your code here.

24

// Do not edit the return statement of this method.

25

return this;

26

}

27

}

28

29

// Do not edit the line below.

30

exports.BST = BST;

31

