

Our Solution(s)Run Code

Solution 1Solution 2

1

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2

3

class Program {

4

static class BST {

5

public int value;

6

public BST left;

7

public BST right;

8

9

public BST(int value) {

10

this.value = value;

11

}

12

13

// Average: O(log(n)) time | O(1) space

14

// Worst: O(n) time | O(1) space

15

public BST insert(int value) {

16

BST currentNode = this;

17

while (true) {

18

if (value < currentNode.value) {

19

if (currentNode.left == null) {

20

BST newNode = new BST(value);

21

currentNode.left = newNode;

22

break;

23

} else {

24

currentNode = currentNode.left;

25

}

26

} else {

27

if (currentNode.right == null) {

28

BST newNode = new BST(value);

29

currentNode.right = newNode;

30

break;

31

} else {

32

currentNode = currentNode.right;

33

}

}

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class Program {

2

static class BST {

3

public int value;

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public BST left;

5

public BST right;

6

7

public BST(int value) {

8

this.value = value;

9

}

10

11

public BST insert(int value) {

12

// Write your code here.

13

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

14

return this;

15

}

16

17

public boolean contains(int value) {

18

// Write your code here.

19

return false;

20

}

21

22

public BST remove(int value) {

23

// Write your code here.

24

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

25

return this;

26

}

27

}

28

}

29

Custom Output

Submit Code

