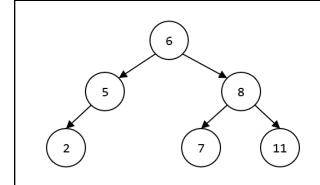
Quizlet 7

Run linear search and binary search on each of the following BSTs to find the **number 12**. List the nodes that will be visited.

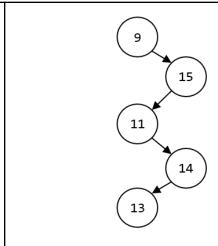


Nodes visited by Linear Search:

6, 5, 2, 8, 7, 11

Nodes visited by Binary Search:

6, 8, 11

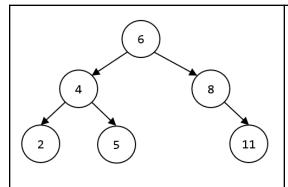


Nodes visited by Linear Search:

9, 15, 11, 14, 13

Nodes visited by Binary Search:

9, 15, 11, 14, 13



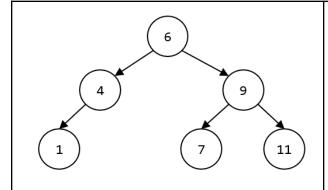
For the tree on the left, we want to sum all the nodes of the tree with a leaf base case:

How many total steps will occur if you do not use concurrency? _____6___

How many time steps will occur if you run the sum algorithm on different cores using concurrency? ____3___

Quizlet 7

Run linear search and binary search on each of the following BSTs to find the number 12. List the nodes that will be visited.

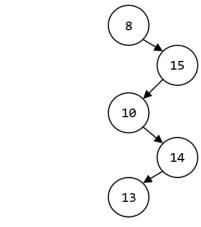


Nodes visited by Linear Search:

6, 4, 1, 9, 7, 11

Nodes visited by Binary Search:

6, 9, 11

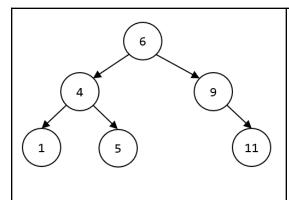


Nodes visited by Linear Search:

8, 15, 10, 14, 13

Nodes visited by Binary Search:

8, 15, 10, 14, 13



For the tree on the left, we want to sum all the nodes of the tree with a leaf base case:

How many total steps will occur if you do not use concurrency? _____6___

How many time steps will occur if you run the sum algorithm on different cores using concurrency? ____3___