20SCS2050 - Quiz 15(5 Points)

Complete the part of the code that is covered. Assume natural (ascending) order.

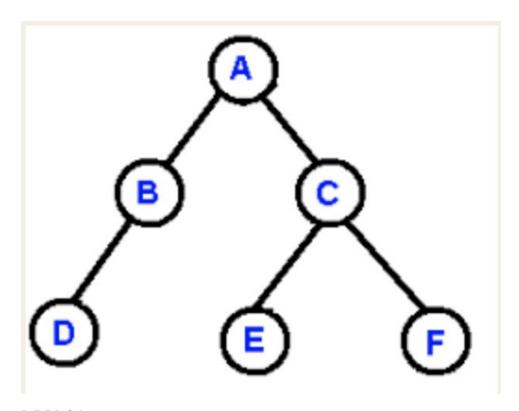
(1 Point)

data.compareTo(current.getData()) < 0</pre>

```
data.compareTo(current.getData()) > 0
data - current.getData() < 0
data - current.getData() > 0
```

Breadth first tree traversal results in ...

(1 Point)



DEFBCA

<mark>A B C D E F</mark>

ABDCEF

DBAECF

Complete the part of the code that is covered.

(1 Point)

```
public String toString() {
      Queue<BinNode<T>> queue = new Queue<>();
      BinNode<T> current = root;
      queue.push(current);
      String str = "";
      while (!queue.isEmpty()) {
          current =
          str += current.getData() + " ";
          if (current.getLeft() != null)
               queue.push(current.getLeft());
          if (current.getRight() != null)
               queue.push(<u>current</u>.getRight());
      return str;
 }
queue.getData();
queue.push();
queue.pop();
current.getNext();
```

Considering the add method implementation discussed in previous lesson, what can we say about the tree's height as a result of adding data elements A, B, C, D, and E in this order? Consider the root node a level on its own.

(1 Point)

it would be 2 levels height it would be 3 levels height it would be 4 levels height it would be 5 levels height

Considering the add method implementation discussed in previous lesson, what can we say about the tree's height as a result of adding data elements C, A, B, D, E, and F in this order? Consider the root node a level on its own.

(1 Point)

it would be 2 levels height

it would be 3 levels height

it would be 4 levels height

it would be 5 levels height