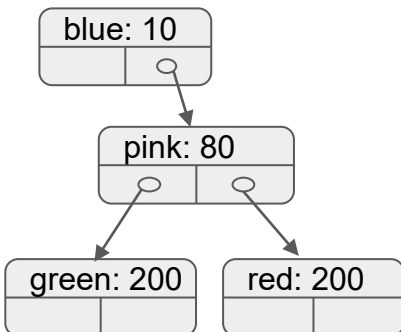


A: blue, green, pink, red  
B: blue, pink, green, red  
C: blue, pink, red, green  
D: red, pink, green, blue  
E: More than one of these works



Definition: A **binary search tree (BST)** is a tree where at **every** node, all keys to the **left** of that node are **smaller** than that key, and all keys to the **right** are larger.

```

class Node<K, V> {
    K key;
    V value;
    Node<K, V> left, right;
}

class BSTMap<K,V> implements OrderedDefaultMap<K,V>{

    int height() {

    }

    void printAllElements() {

    }

}

```

**Definition:** the **height** of a tree is the number of nodes on the **longest** path from the root to the bottom (or to a **leaf**).

The example on the front has height **3**. After we add "orange" it has height **4**.

Consider adding "blue", "pink", "orange", "red", "green", "gray", and "yellow" to an empty tree. What is the **smallest** and **largest** height possible? [Which order gives these results?]

A: smallest: 4, largest: 6

B: smallest: 3, largest: 7

C: smallest: 4, largest: 7

D: smallest: 2, largest: 7

E: smallest: 3, largest: 6