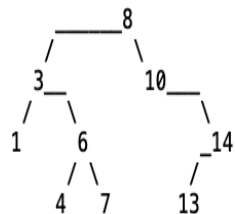

```
In [32]: #Problem 1
         (1, D) (3, J) (4, B) (5, A), (2, H), (6, L)
```

```
In [3]: # Problem 2
         from binarytree import build
         values = [8,3,10,1,6,None, 14, None, None, 4, 7, None, None, 13]
         root = build(values)
```

```
In [4]: print(root)
```



```
In [5]: def difference(root):
         tmp_right = root;
         tmp_left = root;

         while(tmp_right.right != None):
             tmp_right = tmp_right.right;

         while(tmp_left.left != None):
             tmp_left = tmp_left.left;

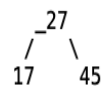
         difference = tmp_right.value - tmp_left.value
         return difference
```

```
In [6]: difference(root)
```

```
Out[6]: 13
```

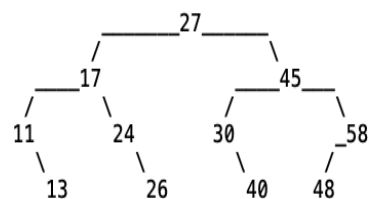
```
In [17]: #Problem 3
values = [27, 17, 45]
```

```
In [18]: root = build(values)
print(root)
```

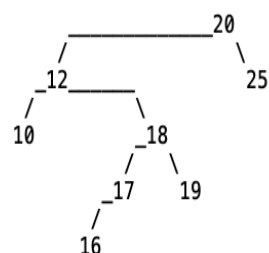


```
In [19]: values = [27, 17, 45, 11, 24, 30, 58, None, 13, None, 26, None, 40, 48, None]
```

```
In [23]: root = build(values)
print(root)
```



```
In [27]: #Problem 4
values = [20, 12, 25, 10, 18, None, None, None, None, 17, 19,
          None, None, None, None, None, None, None, None, 16]
root = build(values)
print(root)
```



```
In [31]: value = [20, 16, 25, 10, 18, None, None, None, 12, 17, 19]
root = build(value)
print(root)
```

