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BCS-3J

DS Lab 10

Q1:

Code:

Output:

```
0_task.cpp
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3
out
Displaying the first tree:
4 0
6 -1
8 0
10 1
Displaying the second tree:
10 -1
12 0
16 1
18 0
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3
```

Q2:

Code:

Output:

```
out
10 0
20 -1
30 -1
40 0
50 0
After insertion:
10 0
15 0
20 -1
30 -1
40 0
50 0
Height of the tree: 3
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_
```

Q3:

Code:

Output:

```
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_l
out
20 0
30 0
40 0
50 0
60 0
70 0
80 0
After insertion:
20 0
30 0
40 0
50 -1
55 0
60 0
70 1
80 0
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_l
```

Q4:

Code:

Output:

```
70 1
80 0
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_l
3_task.cpp
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_l
out
5 0
15 0
10 0
7 0
3 0
After insertion:
5 0
15 0
10 -1
7 0
3 0
12 0
Height of the tree: 2
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_l
```

Q5:

Code:

Output:

```
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_la
out
20 0
30 0
40 0
50 0
60 0
70 0
80 0
printing the required smallest val: 50
printing left subtree height: 1
printing right subtree height: 1
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_la
```