10 10 1 1 1

/ / \ / \ / \

12 12 10 12 10 6 10

/ / \

14 14 12

1 1 1

/ \ / \ / \

6 5 6 5 6 5

/ \ / / \ / \ / \ / \

14 12 10 14 12 10 8 14 12 10 8

/

1 1 15

/ \ / \

3 5 3 5

/ \ / \ / \ / \

6 12 10 8 6 9 10 8

/ \ / \ /

15 14 15 14 12

1 1

/ \ / \

3 5 3 4

/ \ / \ / \ / \

6 7 10 8 6 7 5 8

/ \ / \ / \ / \ /

15 14 12 9 15 14 12 9 10

1 1

/ \ / \

3 4 3 4

/ \ / \ / \ / \

6 7 5 8 6 7 5 8

/ \ / \ / \ / \ / \ / \ /

15 14 12 9 10 11 15 14 12 9 10 11 13

1

/ \

3 2

/ \ / \

6 7 5 4

/ \ / \ / \ / \

15 14 12 9 10 11 13 8

Question 6.b

Insert Into a heap in the order given

10

/ \

12 1

/ \ / \

14 6 5 8

/ \ / \ / \ / \

15 3 9 7 4 11 13 2

After the 3rd level down has been heaped

10

/ \

12 1

/ \ / \

3 6 4 2

/ \ / \ / \ / \

15 14 9 7 5 11 13 8

After second level down has been heaped

10

/ \

3 1

/ \ / \

12 6 4 2

/ \ / \ / \ / \

15 14 9 7 5 11 13 8

After the first level has been heaped

1

/ \

3 2

/ \ / \

12 6 4 8

/ \ / \ / \ / \

15 14 9 7 5 11 13 10