8. Apply the algorithm (in 7) to the array in 3 and show the recursive tree (15pts)

3. Show the stack trace on applying your algorithm (in 1) the following array (10pts)

77| 8| 3| 9 | 2 | 7| 1

1 Sort(arr, 0,7)
Return [1,2,3,7,8,9,77]

2 Sort(arr,0,3)
Returns [3,8,77]

7 Sort(arr, 3,4)
return [1,2,7,9]

3 Sort(Arr,0,1)
Returns [77]

4 Sort(arr,1,2)
returns[3,8]

8 Sort(arr,3,2)
return [2,9]

11 Sort(arr,5,2)
return [1,7]

5 Sort(arr,1,1)
Returns [8]

6 Sort(arr,2,1)
Returns [3]

9 Sort(arr,3,1)
Return [9]

10 Sort(4,1)
Return[2]

12 Sort(arr,5,1)
return [7]

13 Sort(6,1)
Return[1]