HOMEWORK Y

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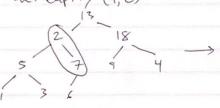
1) GIVEN a[0:5] = [13,2,18,5,6,9], SHOW THE PASSES OF INSERTION SORT.

PASS	13	2	18	2	6	9
1	13	2	18	5	۵	9
2	2	13	18	5	6	9
3	2	13	18	S	6	1
4	2	5	13	18	6	9
5	2	5	6	13	18	9
6	2	5	6	9	(3	18

b) DEST-CASE COMPLEXITY OF INSEPTION SONT: (n)

C) WHAT IS THE COMPLEXITY OF INSTITUTION SORT IF ALL ELEMENTS ARE SORTED EXCEPT FOR ONE ELEMENT? O(n)

2) GIVEN 9[:10] = [13, 2, 18, 5, 7, 9, 4, 1, 3, 6), PLEASE WRITE THE RESULT OF MAXHEAPITY (9,2)



RESULT:
9[1:10] = [13, 7, 18, 5, 2, 9, 4, 1, 3, 6]

3) APPLY MERGESOFT TO a [1:8] = [3,1,4,1,5,9,26]
a) DETERMINE WORRT-CASE TIME COMPLEXITY OF MERBESORT
FOR REVERSE OFFICED INRY WITH SIDE N.
O(nlogn)

