

1. length = 10 index = $\frac{10}{2} - 1 = 4$

$$LC = (4 \times 2) + 1 = 9$$

check (list[47] < list[9])? $\frac{68}{29} < \frac{29}{2}$? No \rightarrow No Swapping

2- List [3] = 74

$$LC = (3 \times 2) + 1 = 7$$
$$RC = (3 \times 2) + 2 = 8$$

check (list[8] < list[7])? yes

check (list [3] < list [7])? yes \Rightarrow Swap

$$3 - \text{Li}[2] = 9$$
$$LC = (2 \times 2) + 1 = 5$$
$$RC = (2 \times 2) + 2 = 6$$

Check (list[6] < list[5])? **yes**

check(list [2] < list[5]):?Yes

\Rightarrow swap

4- List [1] = 18

$$LC = 2H = 3$$
$$RC = 2 + 2 = 4$$

check list [9] & [10] → Yes

check list [1] < list [3]?

Yes \Rightarrow Susap

return to list [3]

$$\text{list}[3] = 19$$
$$LC = 7$$
$$R_c = 8$$

Check list 181 < list 177

LIST 310
SINO V

$$1 + \sqrt{07} = 2$$

0-101

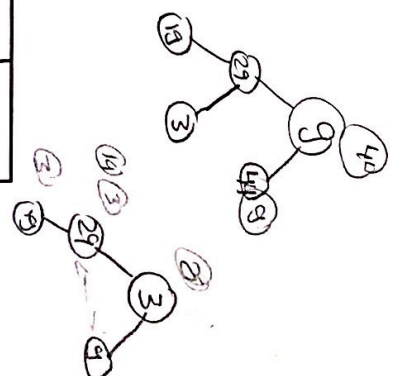
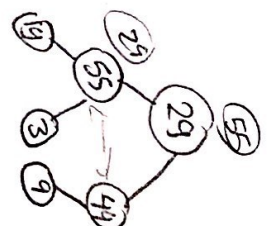
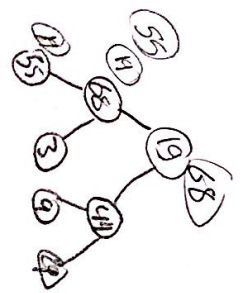
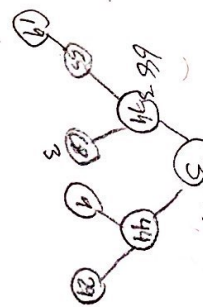
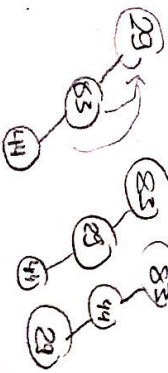
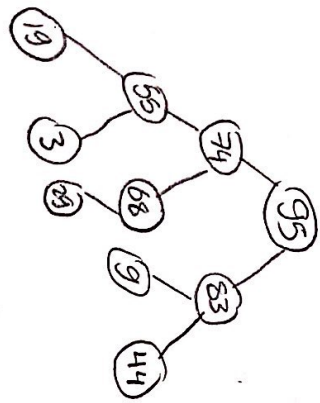
$$200 = 70$$

Yes

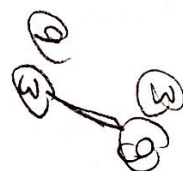
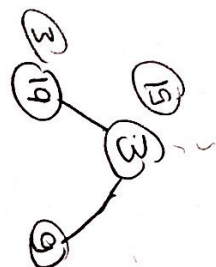
list of lists yes

Swaf

[illegible]



[0]	95	29	83	3	74	19	68	29	55	9	44	3
[1]	74	74	74	68	68	55	55	29	29	9	29	29
[2]	83	83	44	44	44	44	44	44	44	9	9	9
[3]	55	55	55	55	55	19	19	19	19	55	55	19
[4]	68	68	68	68	3	3	3	3	3	3	3	44
[5]	9	9	9	9	9	9	9	9	9	55	55	55
[6]	44	44	29	29	29	29	29	68	68	68	68	68
[7]	19	19	19	19	19	74	74	74	74	74	74	78
[8]	3	3	3	83	83	83	83	83	83	83	83	83
[9]	29	95	95	95	95	95	95	95	95	95	95	95



[0]	29	3	19	9	3							
[1]	19	19	3	3	9							
[2]	9	9	9	19	19							
[3]	19	29	29	29	29							
[4]	44	44	44	44	44							
[5]	55	55	55	55	55							
[6]	68	68	68	68	68							
[7]	78	78	78	78	78							
[8]	83	83	83	83	83							
[9]	95	95	95	95	95							