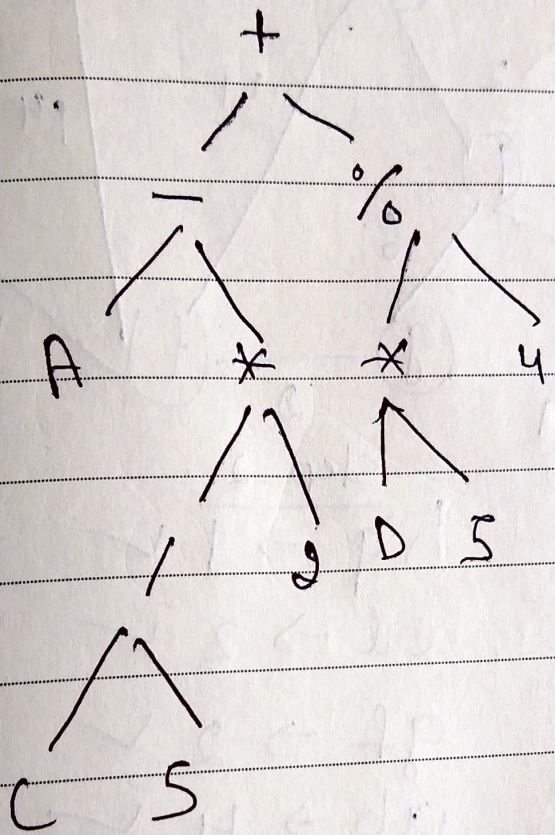
Memo No.
Date / /

DS - A2

1) Traverse with inorder, preorder & postorder



⇒ preorder → Ro, L, R

→ + - A * / C 5 2 % * D 5 4

Inorder → L Ro R

A - C / 5 * 2 + D * 5 % 4

postorder → L R Ro

A C 5 / 2 * D 5 * 4 % + +

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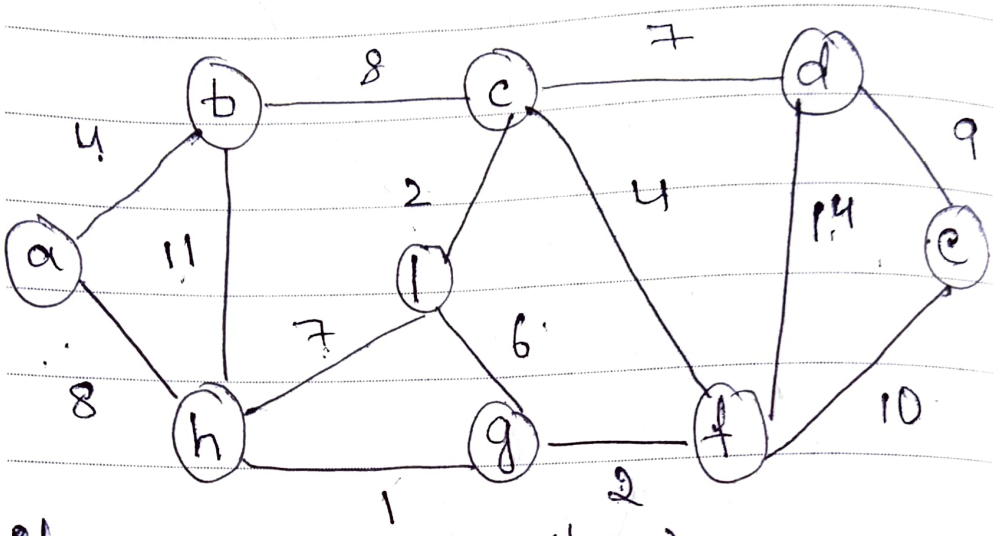
2) Kruskal's algorithm



step-1

ab → 4
bc → 8
ah → 8
bh → 11
cd → 7
ci → 2
hi → 7
ig → 6
hg → 1
cf → 4
gf → 2
df → 14
de → 9
fe → 10

step-2

hg → 1 ✓
cd → 2 ✓
gf → 2 ✓
ab → 4 ✓
cf → 4 ✓
ig → 6 ✗
cd → 7 ✓
bc → 8 ✓ (hi → 7 ✗)
ah → 8 ✗
de → 9 ✓
fe → 10 ✗
bh → 11 ✗
df → 14

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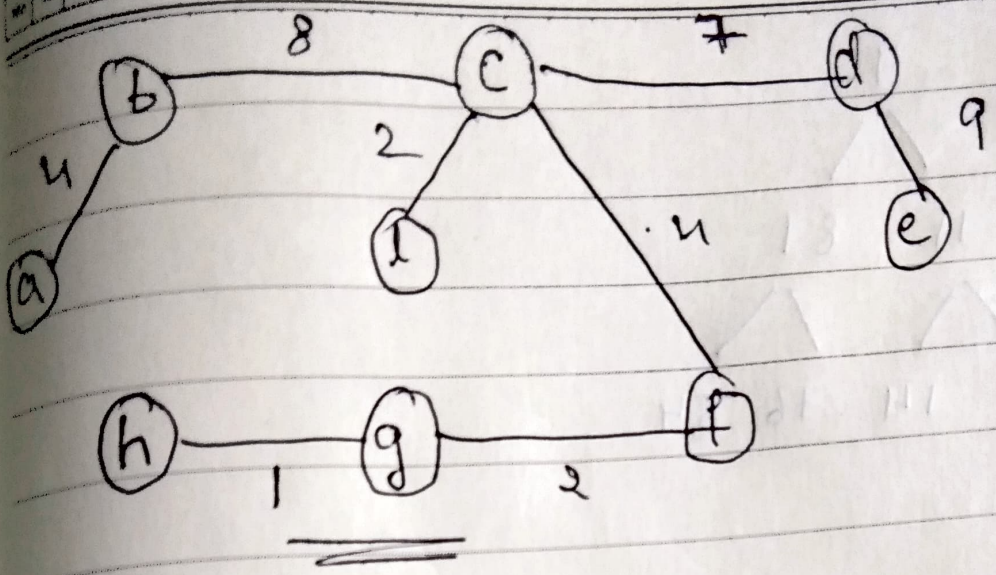
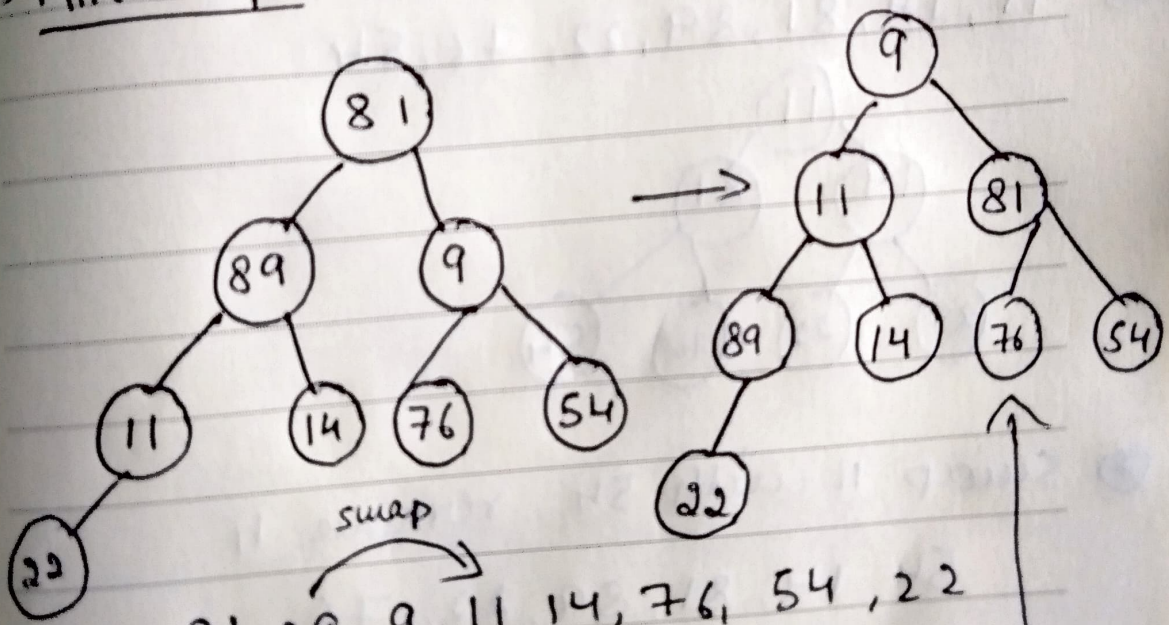


81	89	9	11	14	76	54	22

3)

⇒ Min Heap



81, 89, 9, 11, 14, 76, 54, 22

81, 11, 9, 89, 14, 76, 54, 22

swap

9, 11, 81, 89, 14, 76, 54, 22

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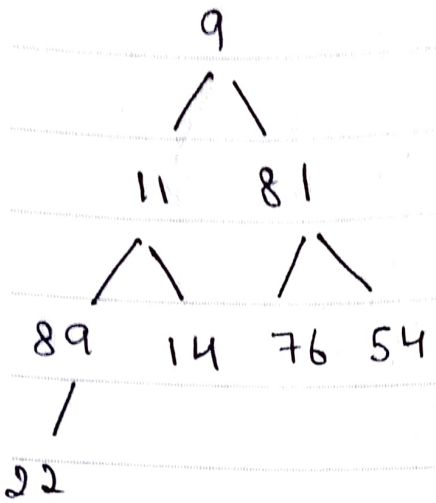
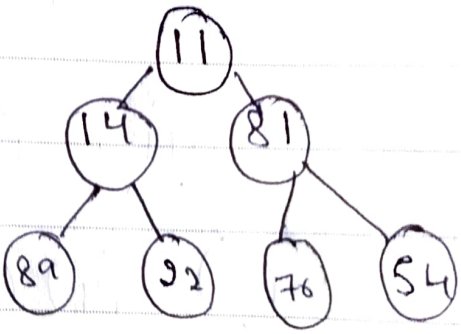


1) Swap 9 with 22 & remove 9

22, 11, 81, 89, 14, 76, 54

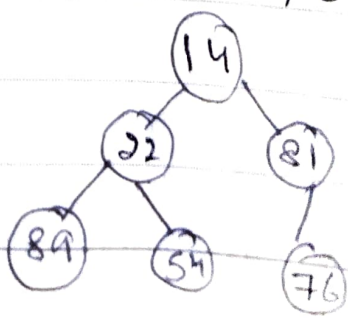
→ 11, 14, 81, 89, 22, 76, 54



2) Swap 11 with 54, remove 11

54, 14, 81, 89, 22, 76

→ 14, 22, 81, 89, 54, 76



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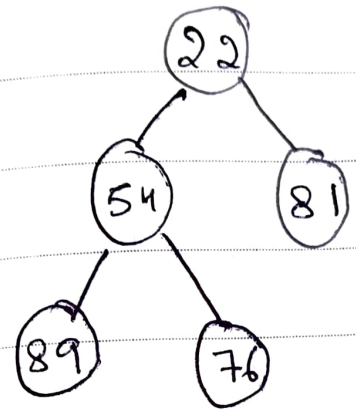
(A) → swap 14 with 76, remove 14

76, 22, 81, 89, 54

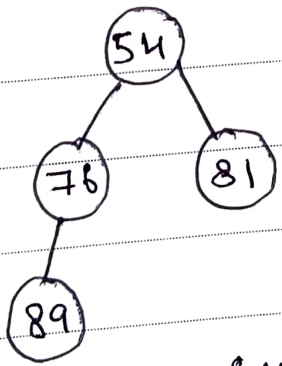
→ 22, 54, 81, 89, 76



(A) → swap 22 with 76, remove 22

76, 54, 81, 89

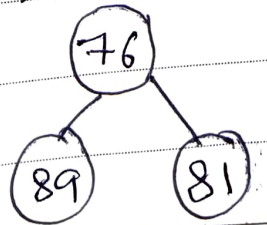
54, 76, 81, 89



(B) → swap 54 with 89, remove 54

89, 76, 81

76, 89, 81



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Mo Tu We Th Fr Sa Su

① swap 76 with 81 remove 76

② swap 81 with 89 remove 89

81, 89

89

so sorted array is

9, 11, 14, 22, 54, 76, 81, 89