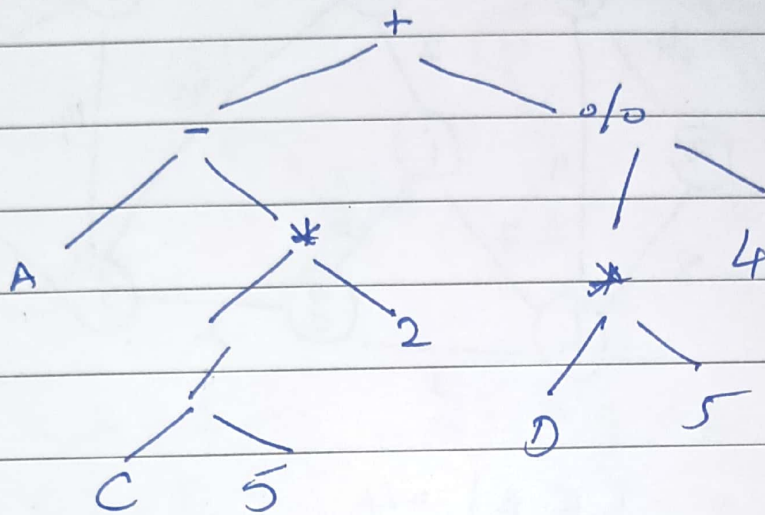


Assignment

*1. Traversal

In, pre, post

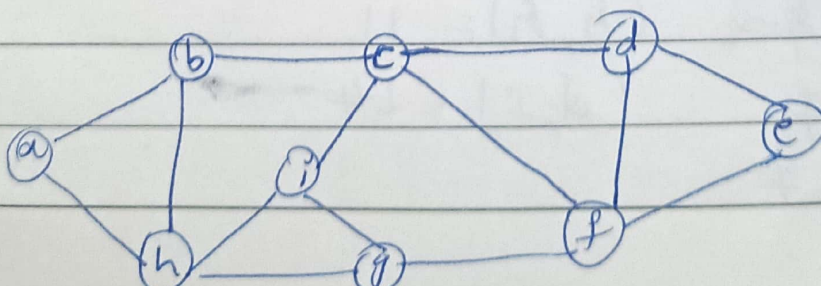


Inorder = ~~A - C / 5 * 2~~ A - C / 5 * 2 + D * 5 / 4

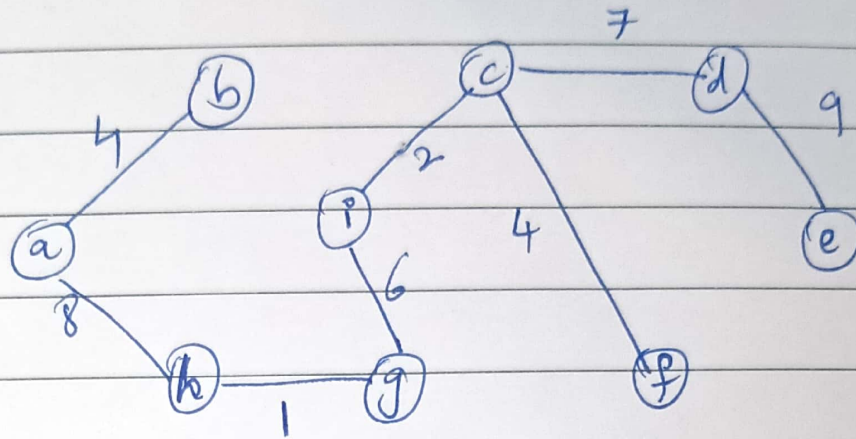
Preorder = + - A * / C 5 2 * D 5 4

postorder = A C 5 / 2 * - D 5 * 4 / +

Q2) On the given graph, visit the nodes with their weights using Kruskal's Alg. Traverse it step by step using pen & paper.



Ans



1.) $a, b = 4 -$

$a, h = 8 -$

$b, h = 11$

$h, i = 7 -$

$h, g = 1 -$

$b, e = 8 -$

$c, i = 2 -$

$i, g = 6 -$

$c, f = 4 -$

$c, d = 7 -$

$f, d = 14$

$f, c = 10 -$

$d, e = 9 -$

2.) $h, g = 1$

$c, i = 2$

$c, f = 4$

$a, b = 4$

$i, g = 6$

$h, i = 7$

$c, d = 7$

$a, h = 8$

$b, c = 8$

$d, e = 9$

$f, c = 10$

$b, h = 11$

$f, d = 14$

Ans

$a, b = 4$

$a, h = 8$

$h, g = 1$

$g, i = 6$

$i, c = 2$

$c, f = 4$

$c, d = 7$

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