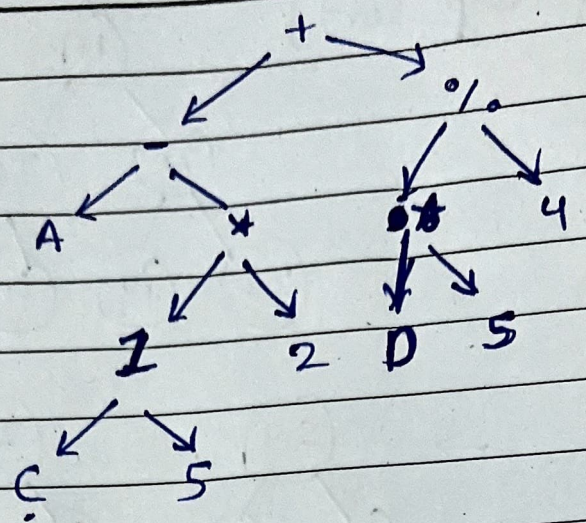
Invested in you

GENESIS

Utkarsh Pareek

1 Q)

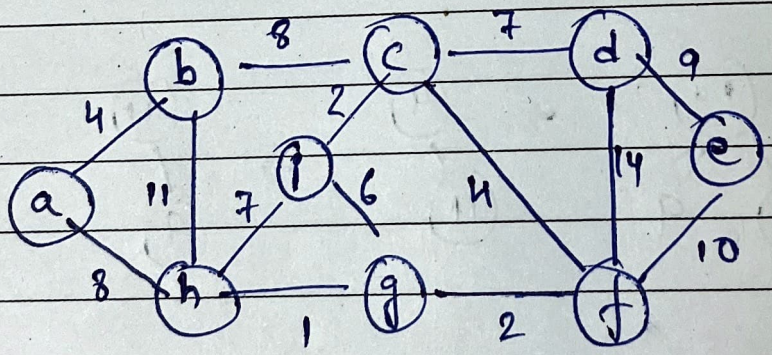


1) In Order ⇒ L Root Right [C 1 5 * 2 - A + D * 5 % 4]

2) Pre Order → Root, Left, Right [+ - A * 1 C 5 2 % 6 D 5 4]

3) Post Order → Left, Right, Root [C 5 1 2 * A - D 5 6 4 % +]

2 Q)



Vertices: a, b, c, d, e, f, g, h, i

Edges & weight

~~a/b~~ ~~a/h~~ ~~b/c~~

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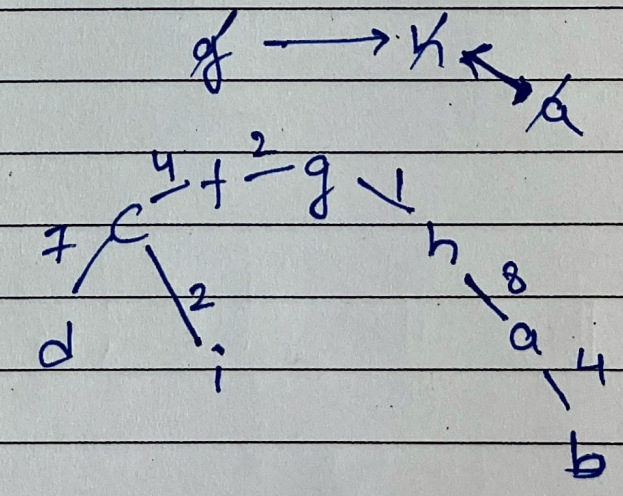
a → b	4
a → h	8
b → c	8
b → h	11
c → d	7
c → i	2
c → f	4
d → e	9
d → f	14
e → f	10
f → g	2
g → h	1
g → i	6
h → i	7

Then sort: edges by weight

g → h :	1
c → i :	2
f → g	2
c → f	4
a → b	4
c → d	7
h → i	7
b → c	8
a → h	8
d → e	9
e → f	10
b → h	11
d → f	14

Build the MST:
minimum spanning tree

g → h : 1
c → i : 2
f → g : 2
c → f : 4
a → b : 4
c → d : 7
a → h : 8