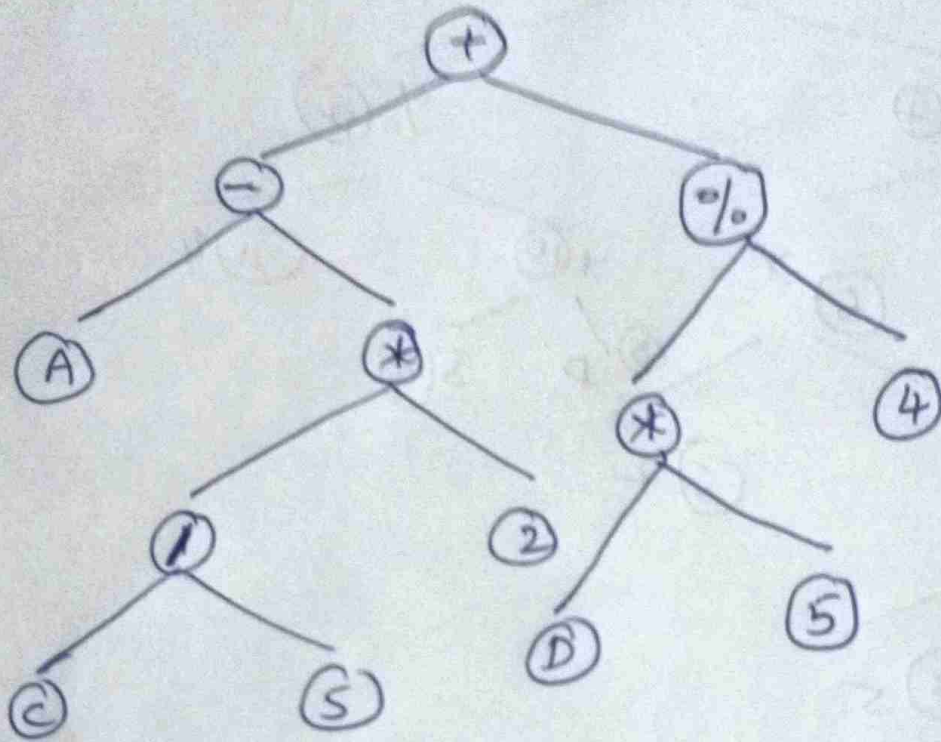


1)

Assignment - Day 8

Given

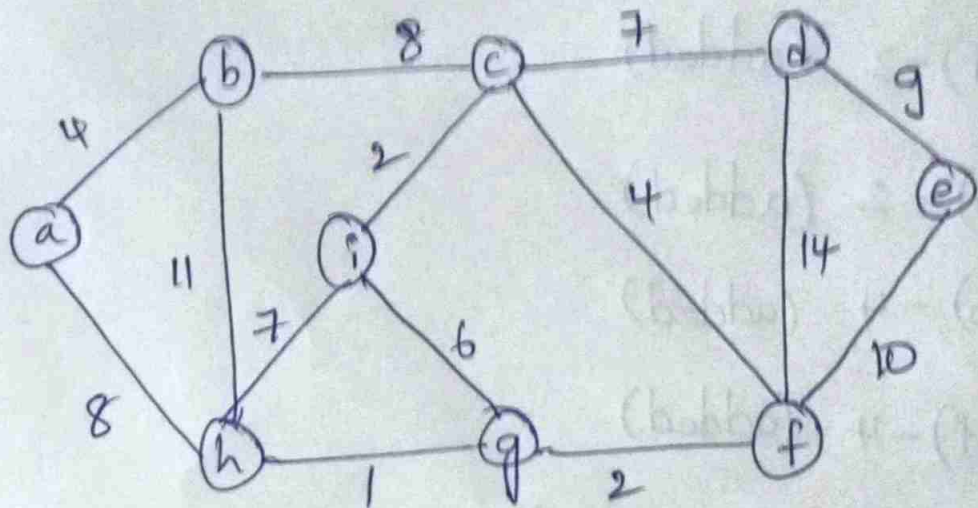


Inorder: A - C / 5 * 2 + D * 5 % 4

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

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

2) Given



Step-1) Order of sides from low to high
with weight

- | | |
|--------------|---------------|
| $(h, g) - 1$ | $(h, i) - 7$ |
| $(g, f) - 2$ | $(b, c) - 8$ |
| $(c, i) - 2$ | $(a, h) - 8$ |
| $(c, f) - 4$ | $(d, e) - 9$ |
| $(a, b) - 4$ | $(e, f) - 10$ |
| $(i, g) - 6$ | $(b, h) - 11$ |
| $(c, d) - 7$ | $(d, f) - 14$ |

Step-2)

$(h,g) - 1$ (added)

$(g,f) - 2$ (added)

$(c,i) - 2$ (added)

$(a,b) - 4$ (added)

$(c,f) - 4$ (added)

$(i,g) - 6$ (not added)

$(c,d) - 7$ (added)

$(h,i) - 7$ (not added)

$(b,c) - 8$ (not added)

$(a,h) - 8$ (added)

$(d,e) - 9$ (added)

$(e,f) - 10$ (not added)

$(b,h) - 11$ (not added)

$(d,f) - 14$ (not added)

