RAJIV
M. Tech (CSE)

STACK

1. What is the
   a. prefix
   and b. post-fix
   From for each of the following ?
   i. A * B - (C + D) - (E - F) + F / H ^ I
   ii. ((B * C) + C / D ^ F) + 9
   iii. A ^ B * C - D + E / F / (9 + H)

2. Convert the infix expression
A * (B + C) - (9 + H) / L + P in to equivalent-
   a. prefix
   and b. postfix notation.

3. Using Stack translate the infix expression
   X * (Y + 2) / A - B * (C + D / E)
   into equivalent-
   a. prefix
   and b. post-fix expression.

4. Convert the following infix expression into equivalent-
   a. prefix
   and b. post-fix expression using STACK :
   A ^ B * (C + D) + (E - F) + 9 / (H + W)

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5. Evaluate the postfix expression:

a. 4, 6, 2, +, *, 12, 3, /
without STACK

b. 4, 6, 2, +, *, 12, 3, /
using STACK.

6. Convert.

a + b * c + (d * e + f) * g

in to

a. prefix expression

b. Postfix expression.

7. To evaluate the postfix expresion

3, 16, 2, +, *, 12, 6, /, −

a. Without Stack

b. using Stack.

8. Convert to prefix & Postfix

i. expresion. using Stack.

A + B * C * (M * N ^ P + T) − 9 + H

ii. Using the above expression
without STACK.

9. Evaluate the ~~postfix~~ prefix

−, *, 3, +, 16, 2, /, 12, 6

a. Without STACK b. Using STACK

10. Convert prefix & Postfix

((A ^ B) * C − (D ^ E) / (F ^ G)