① Convert the following infix Expression to Postfix expression

a) $((A+B)+C) \wedge (D-E)$

② Evaluate the given infix Expression to the postfix expression using stack $((a/b-c+d)*(e-a)*c)$

③ Convert the following infix Expression to postfix expression

a) $(A+B \wedge C) * D + E \wedge 5$

b) $a \&\& b || c || ! (e > f)$

c) $A + B - C * D / E + F$

d) $(A+B) * D + E/(F + A*D) + C$

e) $A * (B+C) / D - G$

f) $(A + B * C/D - E + F/G/(H+I))$

g) $(A+B) * C - D/E * (F/G)$

h) $((A+B) * D) \uparrow (E-F)$

i) $(a*b + c/d) * (e + f \uparrow g)$

j) $A + B \uparrow C * (D/E) - F \% G$

④ Convert the infix string into prefix string with stack operation show the content of stack in each step!

a) $((A+B) * (C-D))$.

b) $(P + (Q*R) - (S/T \uparrow U) * V) * W)$

c) $P * Q \uparrow R - S / T + (U/V)$

d) $(A+B-C +D*E / F \wedge G)$

e) $(A + B \wedge C) * D + E \wedge 5$

f) $A / B \wedge C + D*E - A*C$

g) $(A - B/c) * (D * E - F)$

h) $((a/b - c + d) * (e - a) * c)$

b) $A + B - C * D / E + F \$G / (I + J)$.

i) $((A + B) * (C - D)) / (E + F)$.

j) $P * Q \uparrow R - S / T + [U / V]$

k) $(q - p) * (y + x)$.

l) $A + B - C * D / E + F$

m) $P \times Q \uparrow R - S / T + (U / V)$.

n) $A + B - C \times D / E + F$

o) $((A + B) * D) \wedge (E - F)$.

p) $((A + B) * C) \wedge (D - E)$ Inf prefix / postfix