

Latihan Quiz

$$(6-3)^*(1+8) - 2^*(4+2)$$

c) convert to postfix

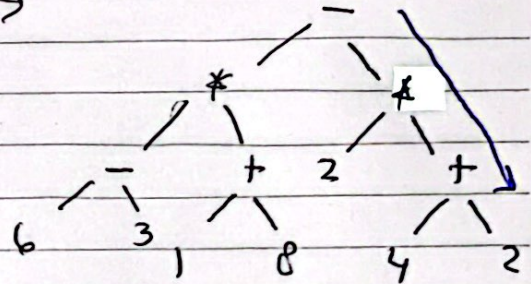
Char	stack	curr
6 3	(-)	
6 3 - 1 8	* (+)	
6 3 - 1 8 +	*	-
6 3 - 1 8 + * 2	-	*
6 3 - 1 8 + * 2 4 2	- * (+)	
6 3 - 1 8 + * 2 4 2 + * -		

← bacanya

d) Evaluate Turun-turun ke kanan

6 3 - 1 8 + * 2 4 2 + * -
 3 1 8 + * 2 4 2 + * -
 3 9 * 2 4 2 + * -
 27 2 4 2 + * -
 27 2 6 * -
 27 12 -
 15

postfix



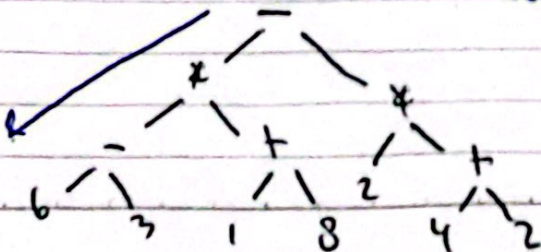
e) Convert to prefix

$$) 2 + 4 (* 2 -) 8 + 1 (*) 3 - 6 ($$

Char	stack	curr
2 4) + (
2 4 + 2 *	*	-
2 4 + 2 * 8 1	-) + (
2 4 + 2 * 8 1 +	-	*
2 4 + 2 * 8 1 + 3 6	- *) - (
2 4 + 2 * 8 1 + 3 6 - * -		

→ - * - 6 3 + 1 8 * 2 + 4 2

→ bacanya turun turun ke kiri.



f) Evaluate

$$- 4 - 6 3 + 1 8 \times 2 + 4 2$$

$$- 4 - 6 3 + 1 8 \times 2 6$$

$$- 4 - 6 3 + 1 8 12$$

$$- * - 6 3 9 12$$

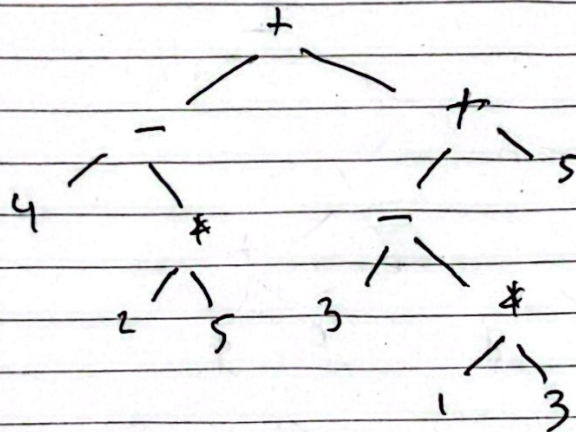
$$- * 3 9 12$$

$$- 27 12$$

$$15$$

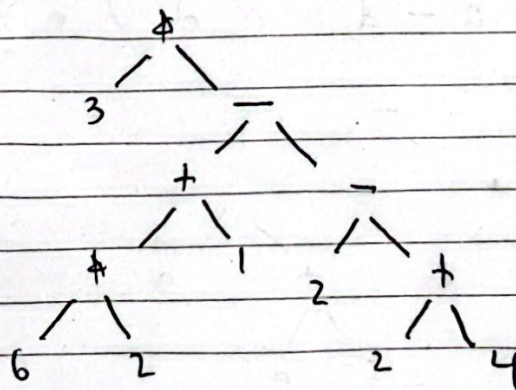
2 a.

$$4 - (2 \times 5) + (3 - (1 \times 3) + 5) \quad \text{Infix}$$



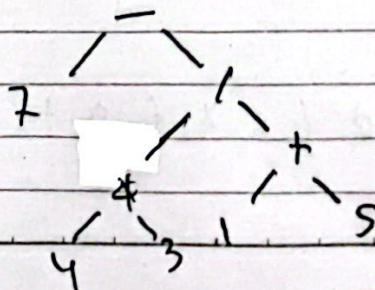
b

$$* 3 - + * 6 2 1 - 2 + 2 4 \quad \text{prefix}$$

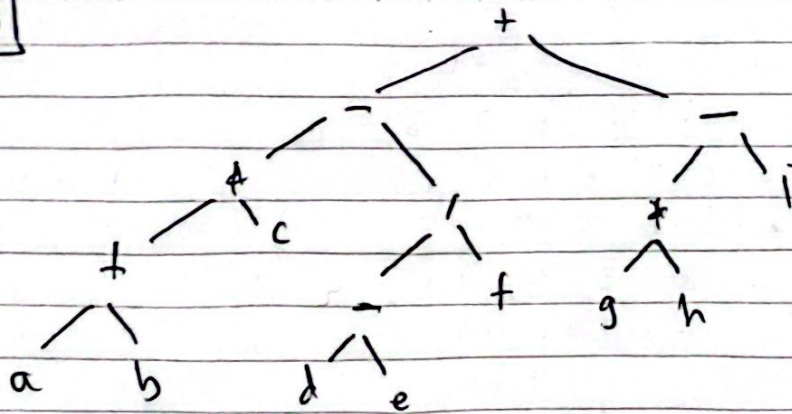


c

$$2 4 3 * 1 5 + / - \quad \text{Postfix}$$

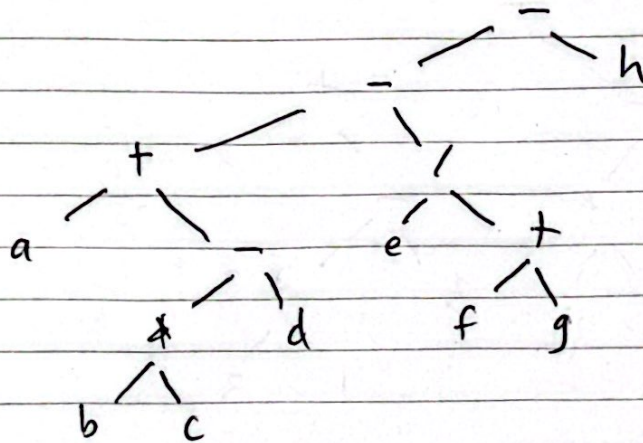


d)



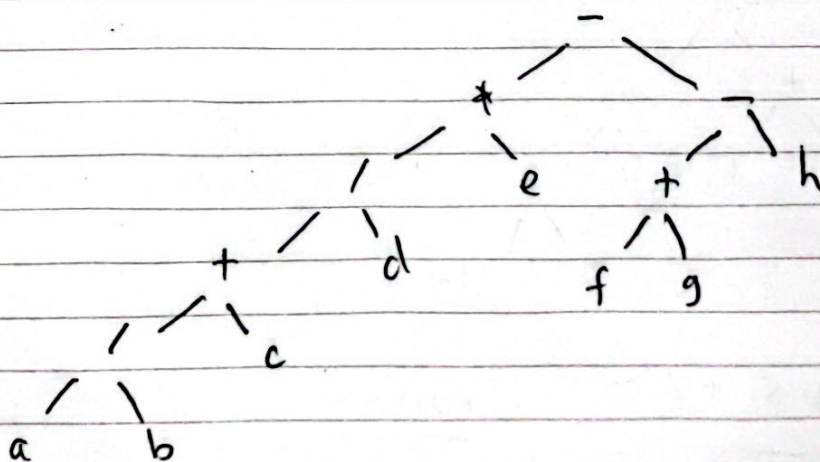
In order $\{((a+b)*c) - ((d-e)/f) + ((g*h)-i)\}$

e)



Preorder : - - + a - * b c d / e + f g h

f)



Postorder: a b / c + d / e * f g + h - -