

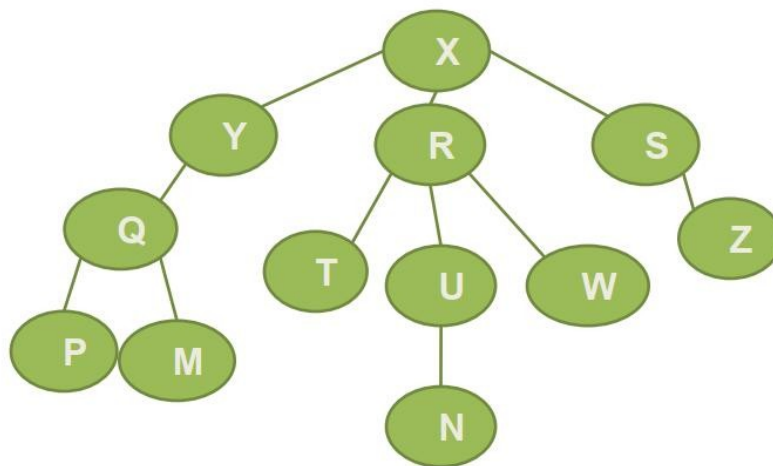
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STRUKTUR DATA

Tree and Binary Tree

1. TREE

Latihan



JAWAB :

Ancestor (N) = U, R, X

Descendant (Y) = Q

Parent (Z) = S

Child (Q) = P, M

Sibling (U) = T, W

Size = 12

Height = 4

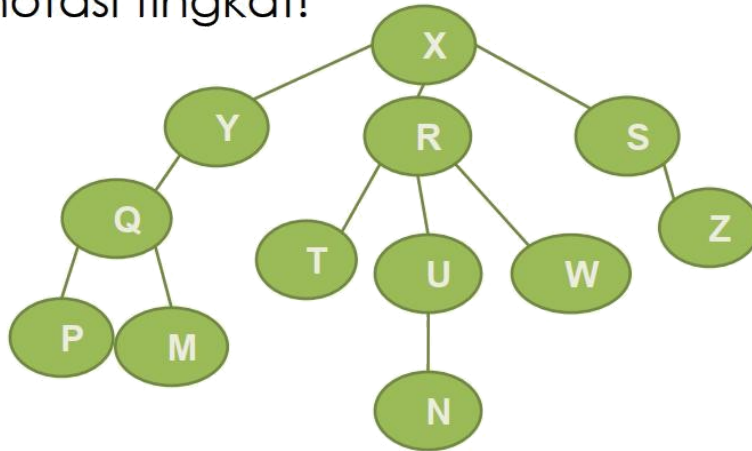
Root = X

Leaf = P, M, N, Z

Degree (R) = 3

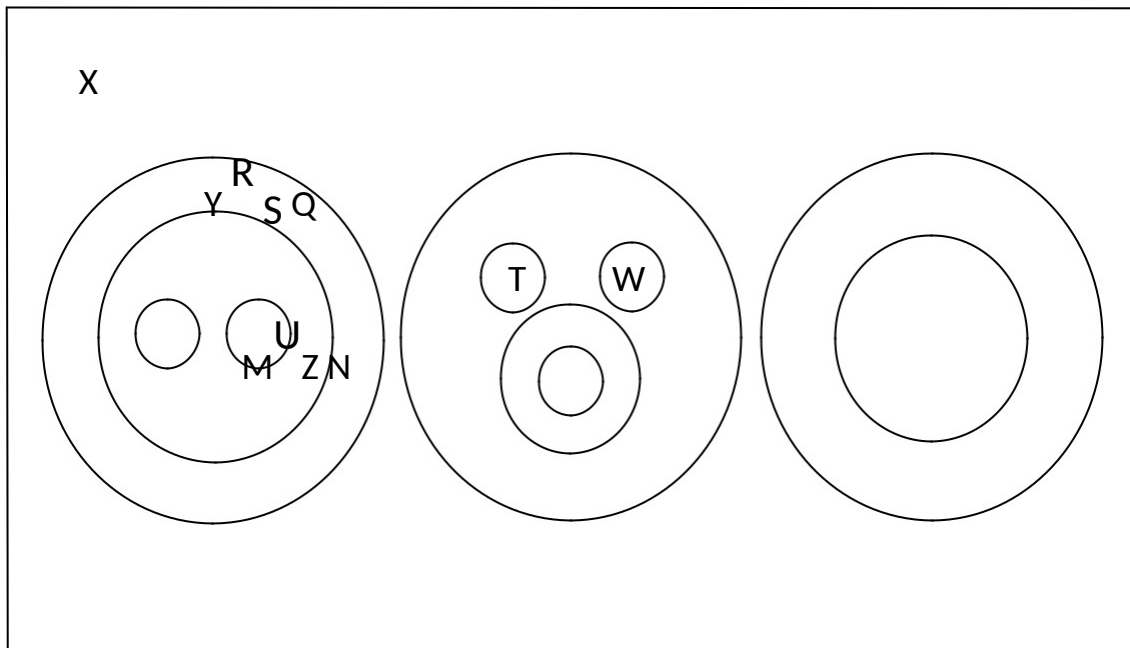
Latihan

- Buat diagram venn, notasi kurung dan notasi tingkat!



JAWAB :

DIAGRAM VENN



NOTASI KURUNG

(X (Y (Q (P, M)), R (T, W, U (N)), S (Z)))

NOTASI TINGKAT

X				
	Y			
		Q		P
				M
	R			
		T		
		W		
		U		
				N
	S			
		Z		

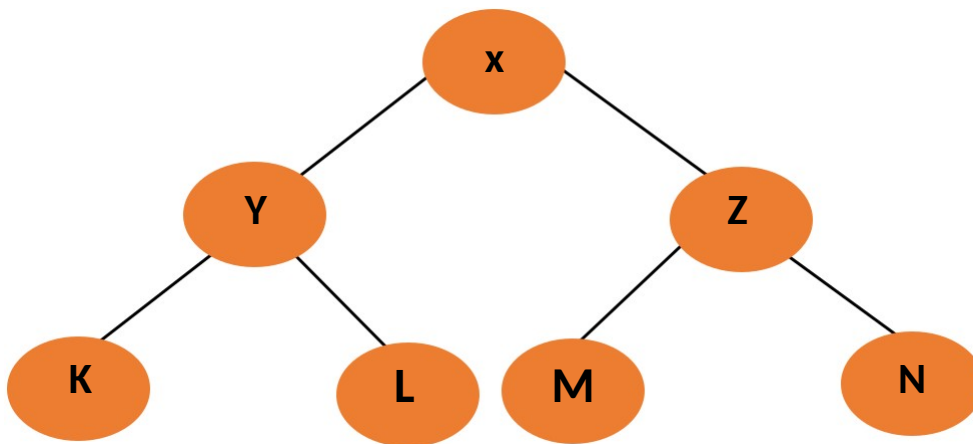
2. BINARY TREE

Latihan

- Gambarkan pohon biner dengan ketentuan sbb :

- Ancestor (M) = Z, X
- Descendant (Y) = K, L
- Parent (N) = Z
- Child (Z) = M, N
- Sibling (Y) = Z
- Size = 7
- Height = 3
- Root = X
- Leaf = K, L, M, N

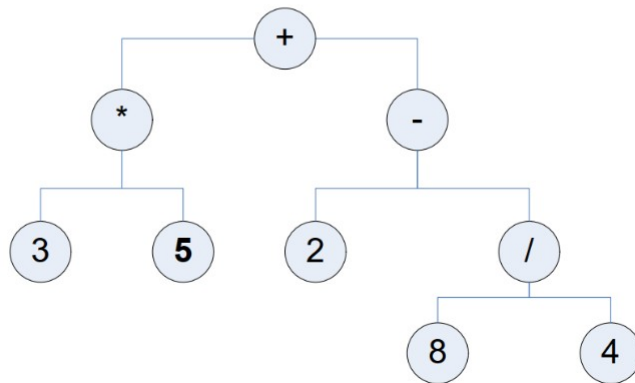
JAWAB :



Latihan

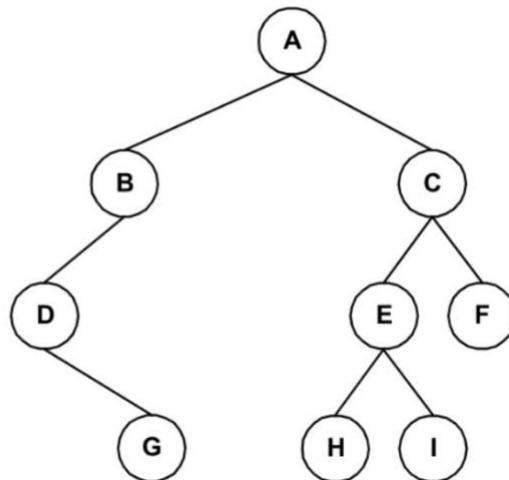
- Telusuri pohon biner berikut dengan menggunakan metode pre, in, post !

Latihan 1



- Preorder Traversal $= + * 3 5 - 2 / 8 4$
- Inorder Traversal $= 3 * 5 + 2 8 4 / -$
- Postorder Traversal $= 3 5 * 8 4 2 / - +$

Latihan 2



- Preorder Traversal $= A B D G C E F H I$
- Inorder Traversal $= D A G B E H I F C$
- Postorder Traversal $= G D B H I E F C A$