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Prodi : D4 Manajemen Informatika 2019A

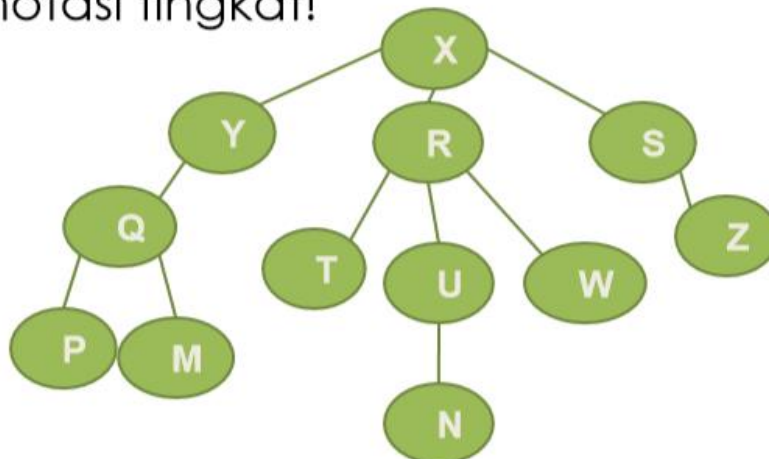
Tugas | Tree and Binary Tree

1.



## Latihan

- Buat diagram venn, notasi kurung dan notasi tingkat!



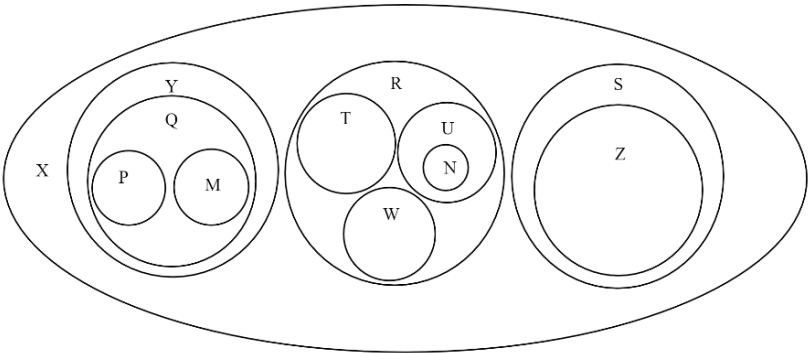
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Identifikasi :

- Ancestor (N) = X, R, U
- Descendant (Y) = Q, P, M
- Parent (Z) = S
- Child (Q) = P, M
- Sibling = T, W
- Size = 12
- Height = 4
- Root = X
- Leaf = P, M, N, T, Z
- Degree (R) = 4

a) Diagram venn



- b) Notasi kurung  
 $(X(Y(Q(P, M))), (R(T(U(N))W)), (S(Z)))$
- c) Notasi tingkat

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

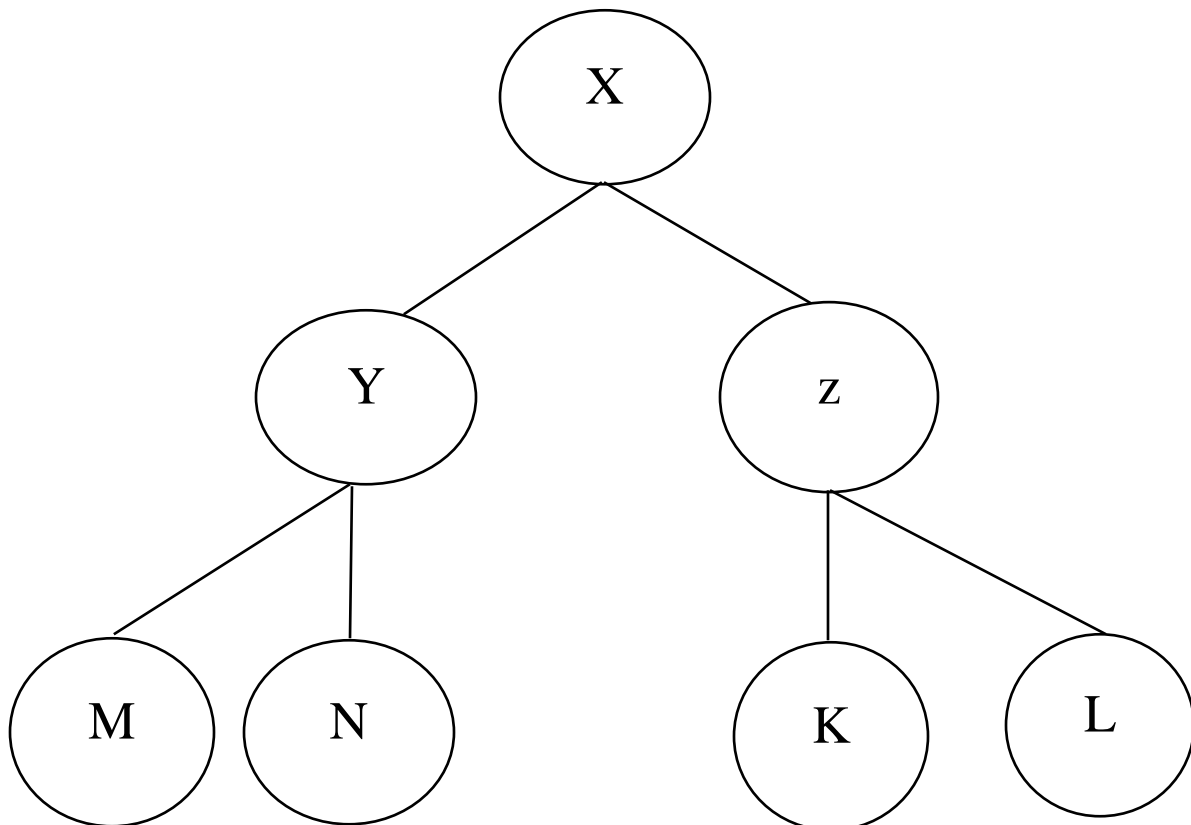
2.

## Latihan

- Gambarkan pohon biner dengan ketentuan sbb :

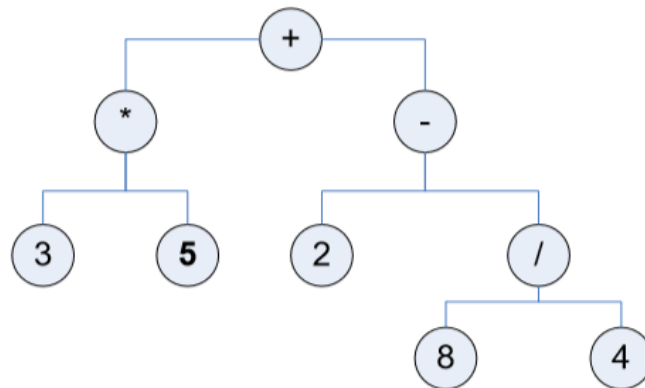
- Ancestor (M) = Z, X
- Descendant (Y) = K, L
- Parent (N) = Z
- Child (Z) = M, N
- Sibling (Y) = Z
- Size = 7
- Height = 3
- Root = X
- Leaf = K, L, M, N

Pohon biner :



3. Telusuri pohon biner berikut dengan menggunakan metode pre, in, post !  
a.

## Latihan 1



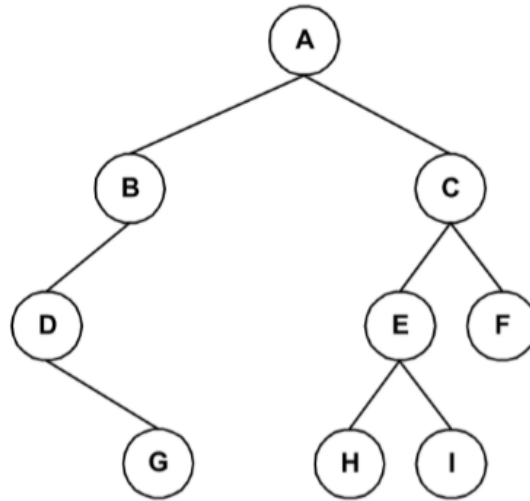
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- |            |               |
|------------|---------------|
| ▪ Preoder  | $= +*35-2/84$ |
| ▪ Inorder  | $= 3*5+2-/84$ |
| ▪ Postoder | $= 35*84/2-+$ |

b.

## Latihan 2



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- Preorder = ABDGCEFHI
- Inorder = DGBAHEICF
- Postoder = GDBHIEFCA