Nama : Gusti Gagas Samudra

NIM : 19051397022

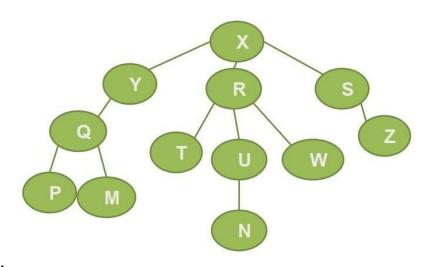
Kelas : D4 Manajemen Informatika 2019 A

STRUKTUR DATA

Tree and Binary Tree

1. TREE

Latihan



JAWAB:

Ancestor (N) = U, R, X

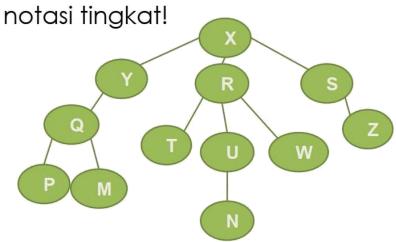
Descendant (Y) = Q

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

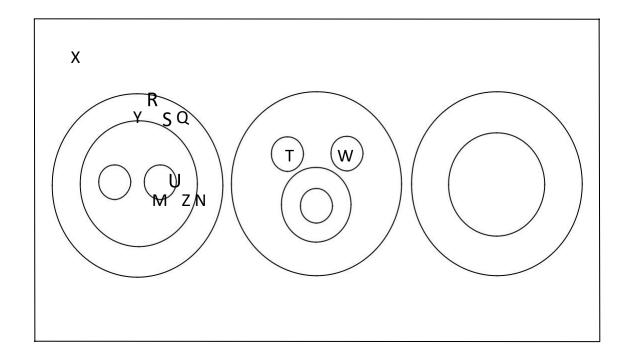
Latihan

Buat diagram venn, notasi kurung dan



JAWAB:

DIAGRAM VENN



Р

NOTASI KURUNG

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

NOTASI TINGKAT

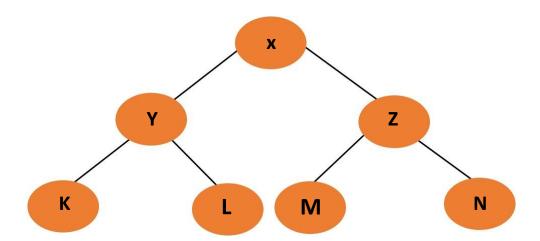
X	Y R	Q	P M
	S	Z	N

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

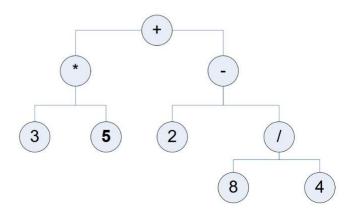
JAWAB:



Latihan

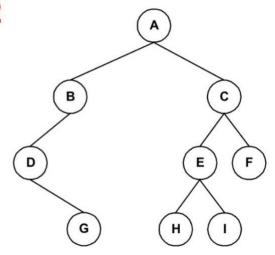
 Telusuri pohon biner berikut dengan menggunakan metode pre, in, post!

Latihan 1



- Preorder Traversal =+*35 2/84
 Inorder Traversal =3*5+284/-
- Postorder Traversal =35*842 / -+

Latihan 2



Preorder Traversal =ABDGCEFHI
 Inorder Traversal =DAGBEHIFC
 Postorder Traversal =GDBHIEFCA