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NIM: 201720026

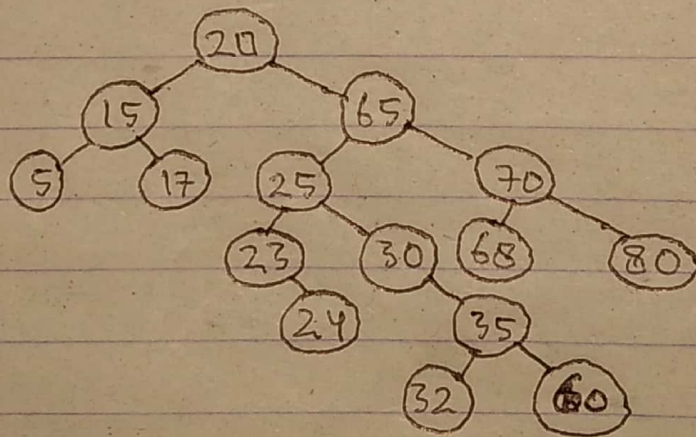
Kelas: IE2A

1. Insert data-data berikut, sehingga muncul sebuah Tree:

20, 65, 25, 30, 70, 80, 15, 17, 35, 60, 5, 23, 32, 24, 68

- Tentukan simpul, edge, root, leaf, level & height
- Jelaskan traversal pohon, bagaimana cara traversal preorder, inorder dan postorder?

Jawab



Simpul = 15

Edge = 14

Leaf = 5 17 32 60 68 80

level 0 = 20

1 = 15 65



No.

Date.

$$2 = 5 \quad 17 \quad 25 \quad 70$$

$$3 = 23 \quad 30 \quad 68 \quad 80$$

$$4 = 24 \quad 35$$

$$5 = 32 \quad 60$$

$$\text{Height} = 5 + 1 = 6$$

$$\text{Preorder} = 20, 15, 5, 17, 65, 25, 23, 24, 30, 35, \\ 32, 60, 70, 68, 80$$

$$\text{Inorder} = 5, 15, 17, 20, 24, 23, 32, 35, 60, 30, \\ 25, 68, 70, 80, 65$$

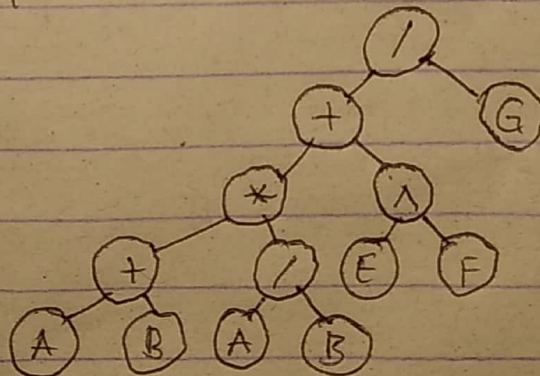
$$\text{Postorder} = 5, 17, 15, 24, 23, 32, 60, 35, 30, 25, \\ 68, 80, 70, 65, 20$$

2. Dari pohon berikut tentukan

1.) Preorder

2.) Inorder

3.) Postorder



No.

Date.

Jawab

1.) Preorder

$$= / + * + A B / A B ^ E F G$$

2. Inorder

$$= A + B * A / B + E ^ F / G$$

3. Postorder

$$= A B + A B / * E F ^ + G /$$