

LAPORAN TUGAS

MATA KULIAH ALGORITMA DAN STRUKTUR DATA

Dosen Pengampu : Triana Fatmawati, S.T, M.T

PERTEMUAN - 13 - 14 Tree



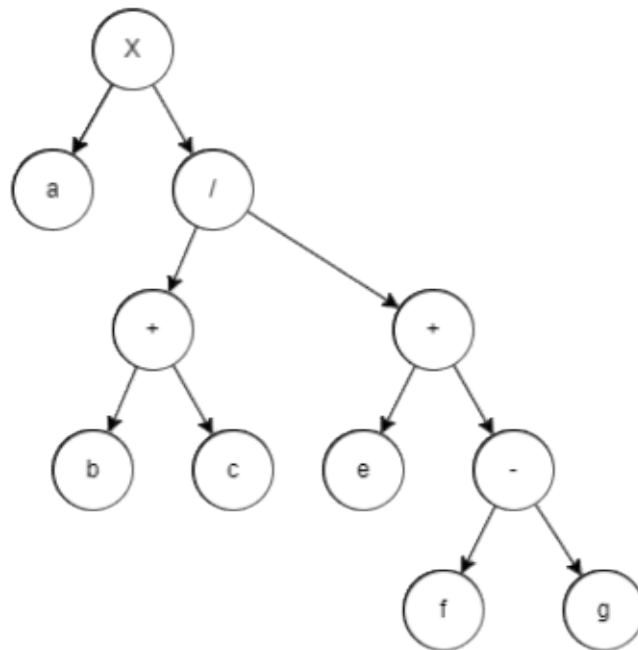
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JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG

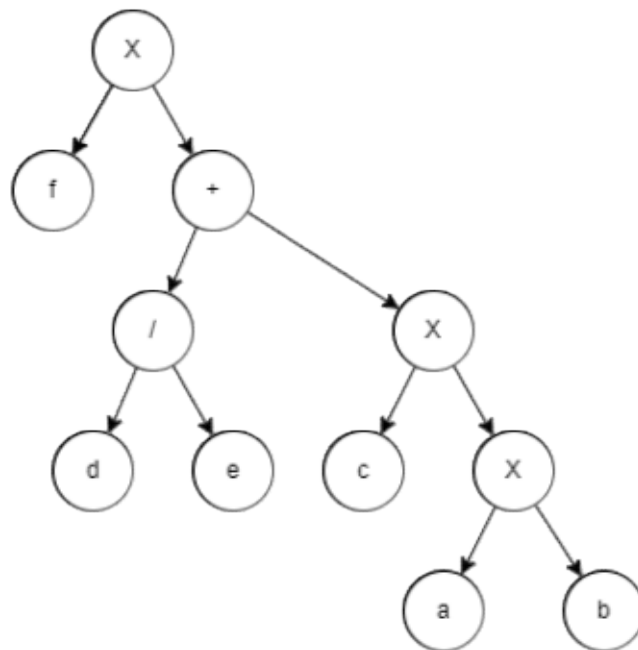
2024

Latihan 1

a) Latihan 1a



b) Latihan 1b

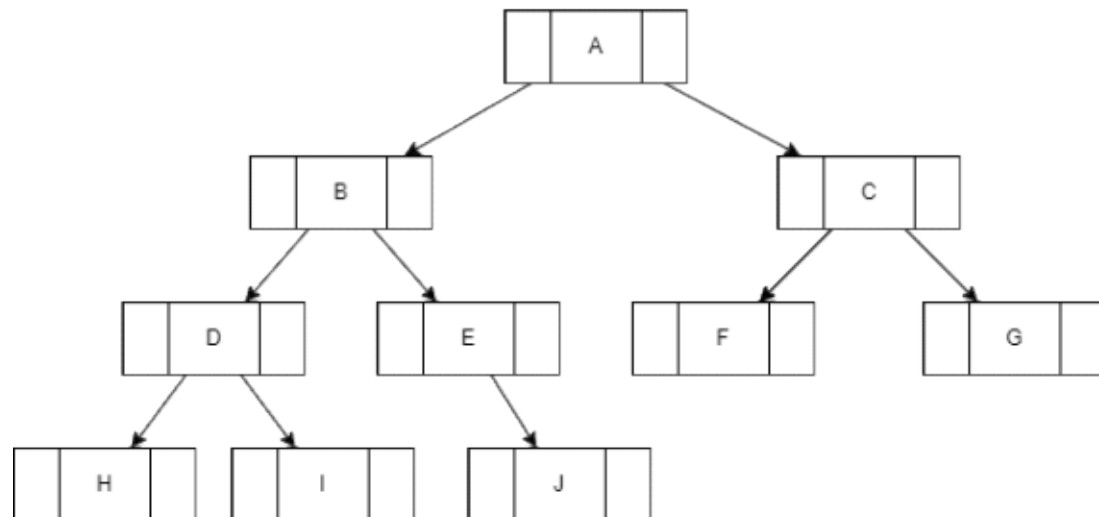


Latihan 2

a) Latihan 2a

Indeks mulai 0

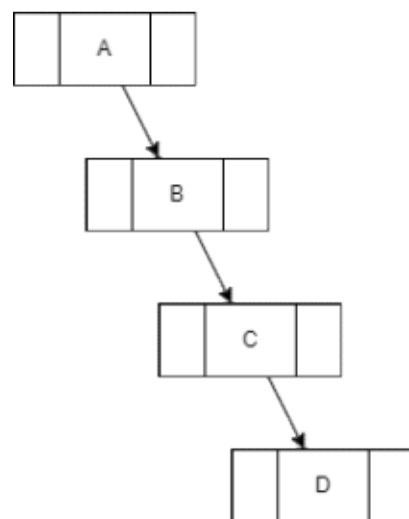
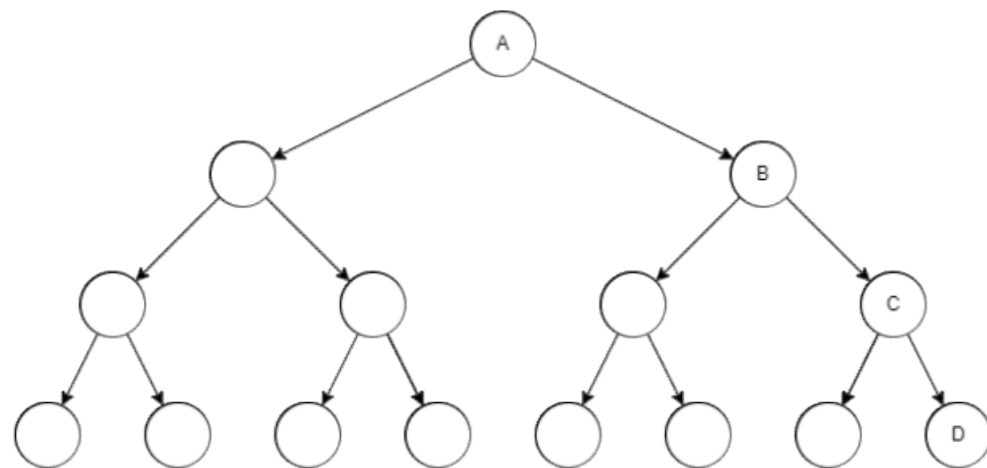
0	1	2	3	4	5	6	7	8	9	10
	A	B	C	D	E	F	G	H	I	J



b) Latihan 2b

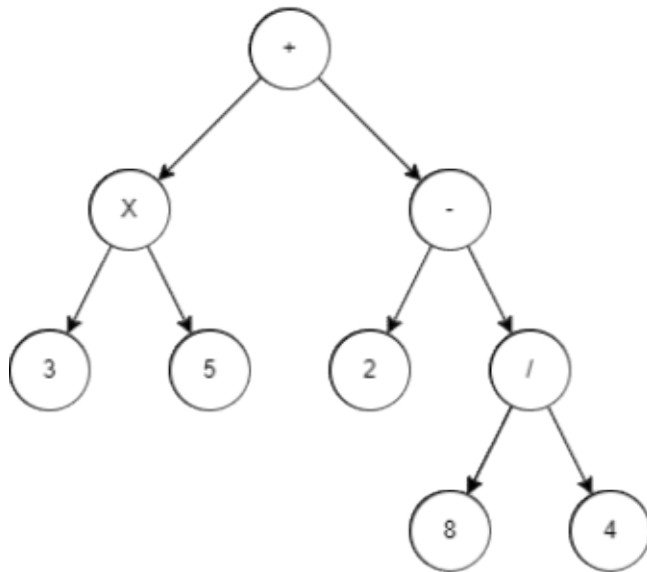
Indeks mulai 0

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A		B				C								D



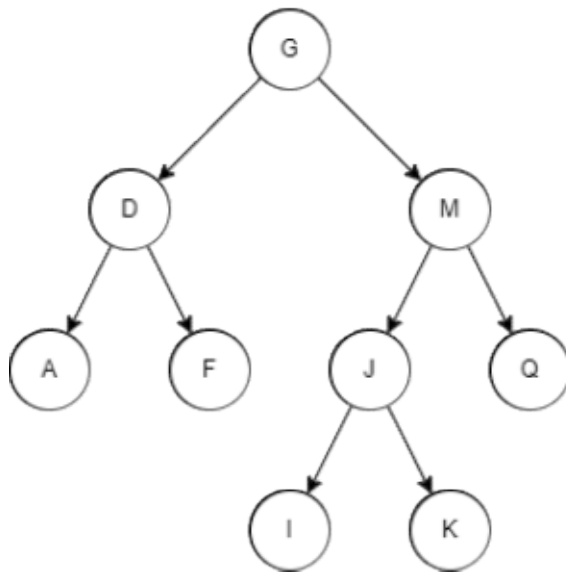
Latihan 3

a) Latihan 3a



- Preorder Traversal : + * 3 5 - 2 / 8 4
- Inorder Traversal : 3 * 5 + 2 - 8 / 4
- Postorder Traversal : 3 5 * 2 8 4 / - +
- Level Order Traversal : + * - 3 5 2 / 8 4

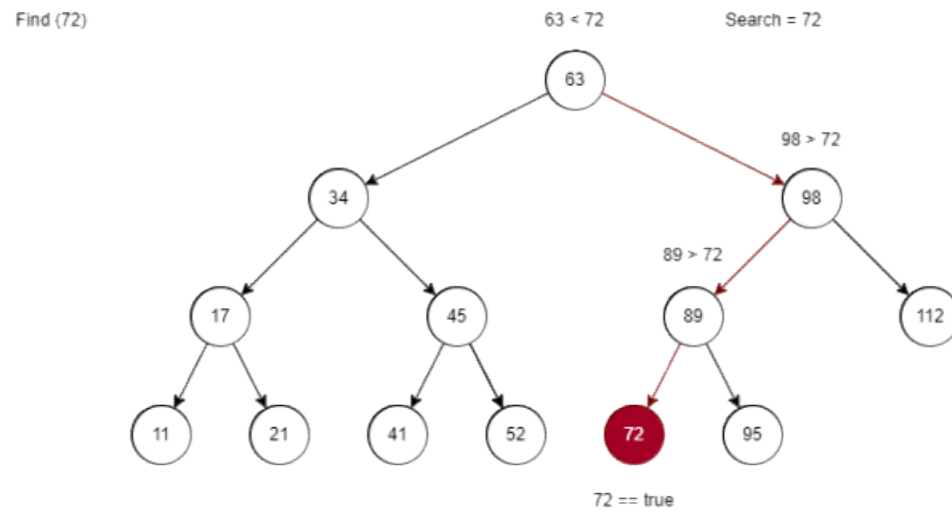
b) Latihan 3b



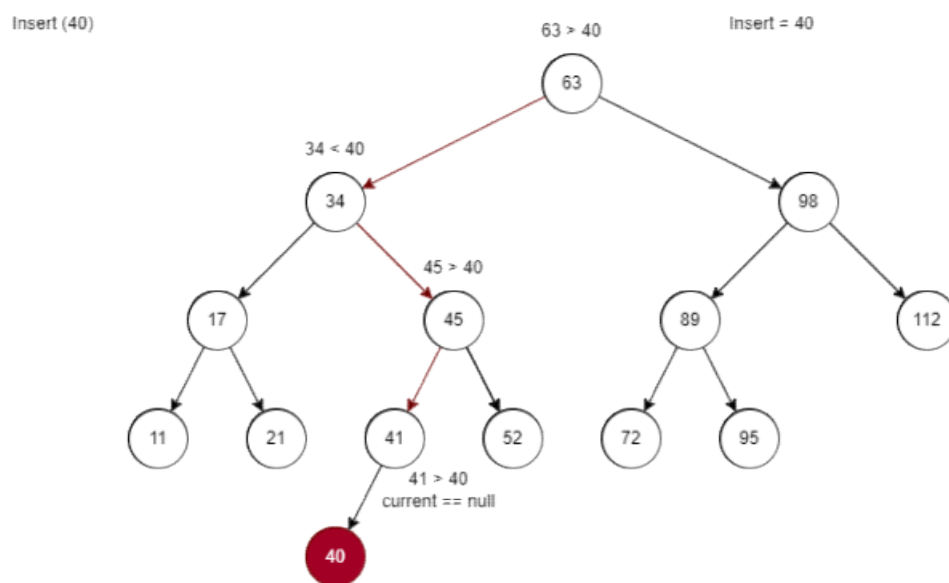
- Preorder Traversal : G D A F M J Q I K
- Inorder Traversal : A D F G I J K M Q
- Postorder Traversal : A F D I K J Q M G
- Level Order Traversal : G D M A F J Q I K

Latihan 4

a) Find (72)

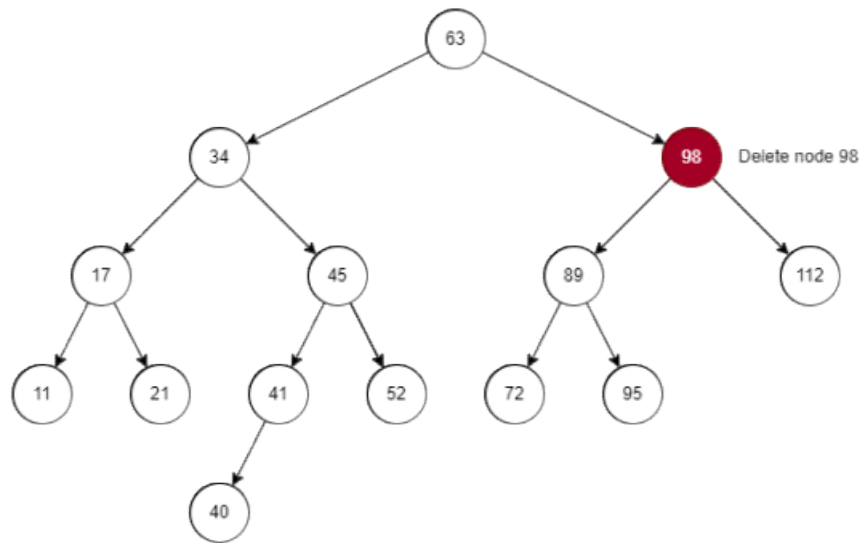


b) Insert (40)

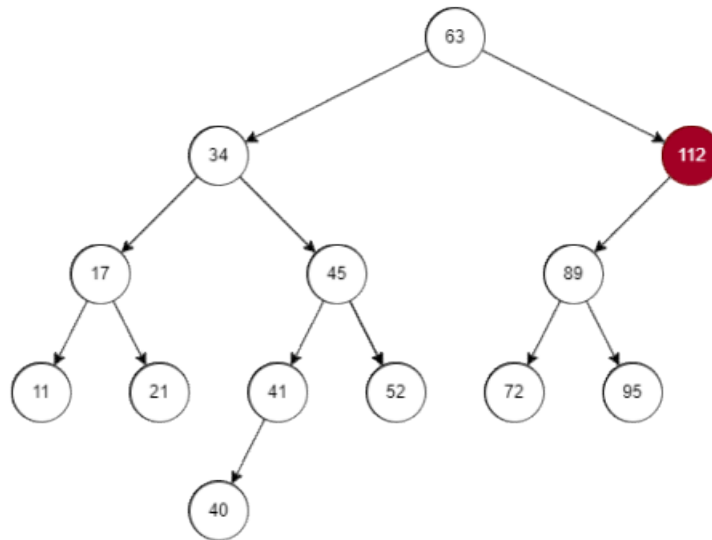


c) Delete (98)

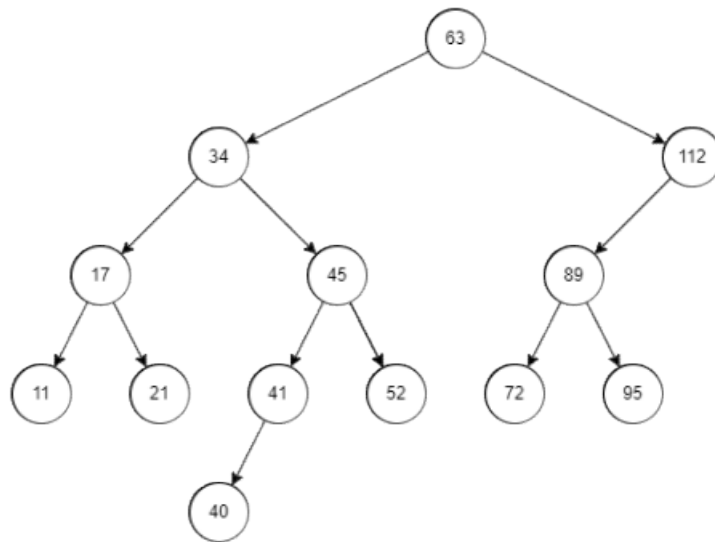
Delete (98)



After Delete (98)



d) Display



Preorder Traversal : 63 | 34 | 17 | 11 | 21 | 45 | 41 | 40 | 52 | 112 | 89 | 72 | 95
Inorder Traversal : 11 | 17 | 21 | 34 | 40 | 41 | 45 | 52 | 63 | 72 | 89 | 95 | 112
Postorder Traversal : 11 | 21 | 17 | 40 | 41 | 52 | 45 | 34 | 72 | 95 | 89 | 112 | 63