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Latihan Pra-Assessment

1. Pre-Order = 2-7-2-6-5-11-5-9-4

2. In-Order = 2-7-5-6-11-2-5-4-9

3. Post-Order = 2-5-11-6-7-4-9-5-2

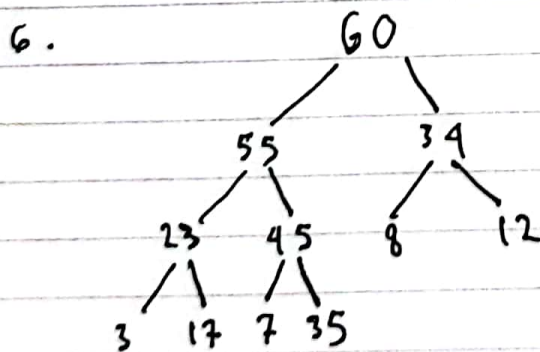
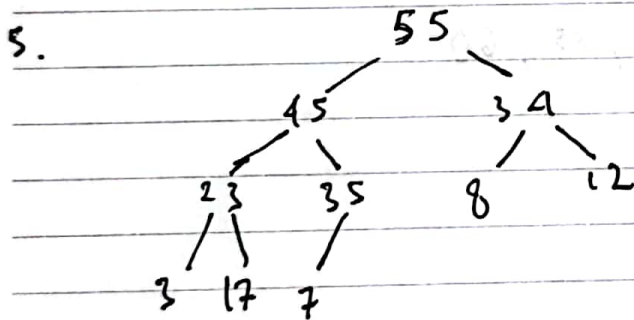
4. Depth = 3

→ Level dari node 9 = 2

→ Sibling dari node 6 = 2

→ Ancestor node 11 = 6, 7, 2

→ Child node 5 = 9



7. 1. 60, 55, 34, 23, 45, 8, 12, 3, 17, 7, 35

Mengambil elemen terbesar dan memindahkannya ke akhir array

Mengambil 60, lalu heapify

2. 55, 45, 35, 23, 34, 8, 12, 3, 17, 7

Mengambil 55, lalu heapify

3. 45, 34, 35, 23, 17, 8, 12, 3, 7

Mengambil 45, lalu heapify
4. 35, 34, 12, 23, 17, 8, 7, 3

Mengambil 35, lalu heapify
5. 34, 23, 12, 3, 17, 8, 7

Mengambil 34, lalu heapify
6. 23, 17, 12, 3, 7, 8

Mengambil 23, lalu heapify
7. 17, 7, 12, 3, 8

Mengambil 17, lalu heapify
8. 12, 7, 8, 3

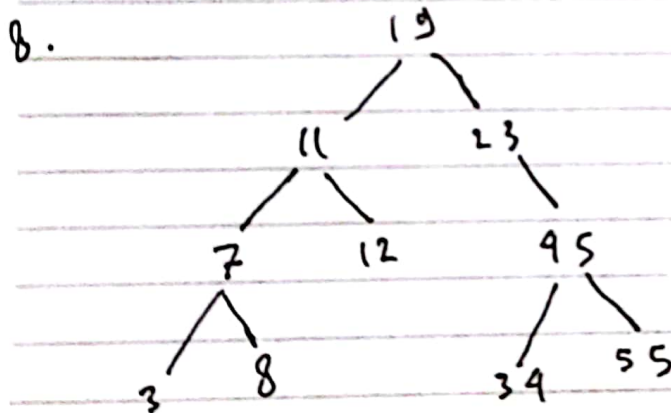
Mengambil 12, lalu heapify
9. 8, 7, 3

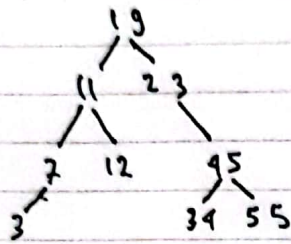
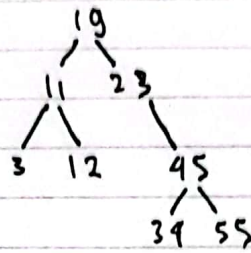
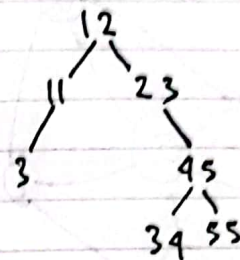
Mengambil 8, lalu heapify
10. 7, 3

Mengambil 7, lalu heapify

Mengambil 3

Array = 3, 7, 8, 12, 17, 23, 34, 35, 45, 55, 60



9. \rightarrow 8 Dihapus10. \rightarrow 7 Dihapus11. \rightarrow 19 Dihapus

10.

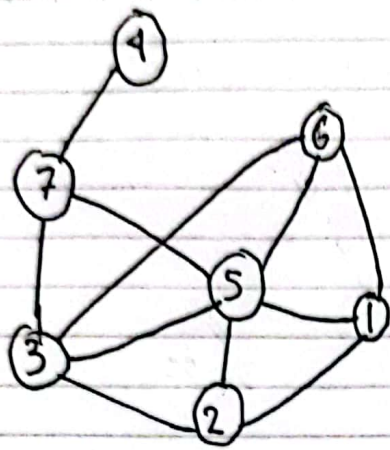
	0	1	2	3	4	5
0	0	1	1	0	0	0
1	0	0	1	1	0	0
2	0	0	0	1	0	0
3	0	0	0	0	1	0
4	1	1	0	0	0	1
5	0	0	0	0	0	0

11. $0 \rightarrow \{1, 2\}$ $1 \rightarrow \{2, 3\}$ $2 \rightarrow \{3\}$ $3 \rightarrow \{4\}$ $4 \rightarrow \{0, 1, 5\}$ $5 \rightarrow \{3\}$

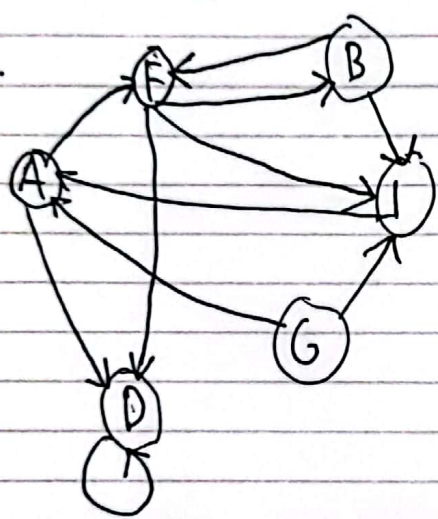
12.

	0	1	2	3	4	5
e_1	1	-1	0	0	0	0
e_2	1	0	-1	0	0	0
e_3	0	1	-1	0	0	0
e_4	0	1	0	-1	0	0
e_5	0	0	1	-1	0	0
e_6	0	0	0	1	-1	0
e_7	-1	0	0	0	1	0
e_8	0	-1	0	0	1	0
e_9	0	0	0	0	1	-1

13.



14.



15. BFS = S - A - B - C - D - G1 - E - G1

DFS = S - B - E - G1 - G2 - A - D - C

16. Index

Value

0

Rendang

1

Opor → Sambil Goreng Udag

2

Sayur Godog → kentang mustopa

3

Ketupat

4

Sayur Lodeh

17. Index

Value

0

Kentang Mustopa

1

Opor

2

Sayur lodeh

3

Sayur Godog

4

Rendang

Index

Value

5

Sambel goreng udang

6

Ketupat