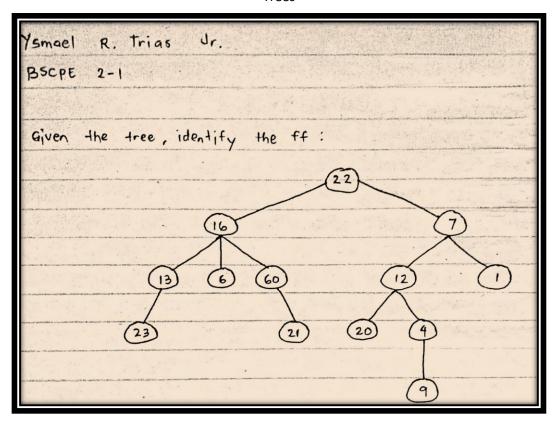
## Trees



6. Children of node 16> 13	6 and 60
7. Parent of node 1. > 7	
8. Siblings of 23> No	ne
9. Ancestors of 9> 22	-,7,12 and 4
	, 6, 60, 23 and 21
	, 6, 21, 20, 9 and 1
	, 16, 7, 13, 60, 12 and 4
	pth 3
14. Degree of the tree -> de	egree 3
15. Height of the tree -> he	eight ,4
16. Weight of the tree > 6	

17. Is the tree a binary No because a binary only contains a maximum of 2 children per node. One of the node has 3.

18. Removing 6 is the No because a full binary tree only tree a full binary contains either a leaf or 2 nodes. tree?

19. Removing 6 is the No because other levels are not tree a complete binary completely filled.

17. Is the tree a binary only contains a binary only conta

20. Is a full binary tree Yes, a full binary tree can be complete
complete? if all the nodes are completely filled
except the last level.
21. Is a complete binary tree _ > Yes, a complete binary tree can be full
full? if it only contains 0 or 2 nodes.
22. How many leaves does a complete n-ary tree of height h have?
→ h
- 23. What is the height of a complete n-ary tree with m leaves?
-> log <sub>n</sub> m
29. What is the number of internal nodes of a complete n-ary tree of
height h
$\rightarrow n^{n-1}$
n - 1
25. What is the total number of nodes a complete n-ary tree of height
h have?
2 (h+1)