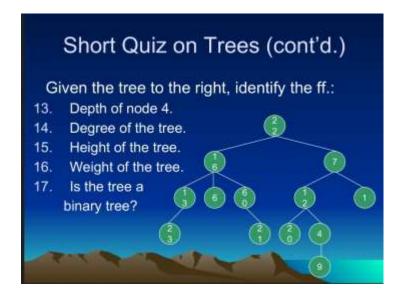
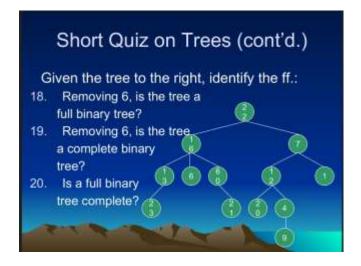


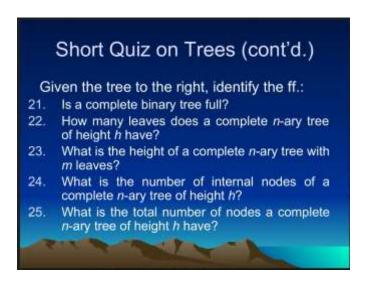
- $6. V = \{13, 6, 60\}$
- 7. $V = \{7\}$
- 8. None
- 9. $V = \{22,7,12,4\}$
- 10. $V = \{13,6,60,23,21\}$
- 11. $V = \{23,6,21,20,9,1\}$
- 12. $V = \{22,16,7,13,60,12,4\}$



- 13. The depth of this tree is 3.
- 14. The degree of this tree is 3.
- 15. The height of this tree is 4.
- 16. The weight of this tree is 6.



- 18. No, because node 4 only has one child, which is node 9.
- 19. Yes, because every other node is completely filled.
- 20. No, because a full binary tree can be defined as a binary tree in which all nodes have 0 or two children, whereas a complete binary tree is a binary tree in which all levels are completely filled except possibly the lowest one, so nodes with only one child node may exist.



- 21. No, because a complete binary tree has all completely filled except possibly thelowest one so there might be nodes who have only one child node or zero.
- 22. nh
- 23. log_nm

24. 1 + n + n +... + n =
$$\sum_{i=0}^{2} n^{i} = \frac{1}{n-1}$$
; $2^{h} - 1$

25.
$$n = [(k^{h+1})-1]/(h-1)$$