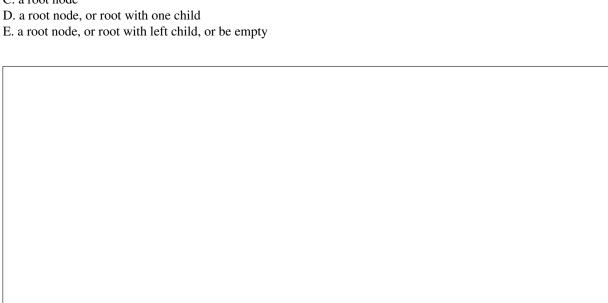
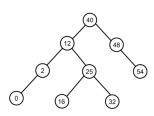
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b) De	ert 25 into the heap lete 39 from the hea	ap.				
b) De	lete 39 from the hea	ap.				
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C. It is	s not comparison-bases only doing it on a series not stable of X is wrong		the worst o	case		
E. FIC	of A is wrong					

5.	Assuming that all keys involved are different, a max-heap that is also a binary search tree must consist of (choose
	the most accurate answer):
	A. at most 2 nodes
	B. a root node, or be empty
	C a root node



6. Given the binary search tree below:



- a) Delete node 48 in the tree.
- b) Delete node 16 in the tree.
- c) Delete node 12 in the tree by using the minimum key in the right subtree.
- d) Delete node 12 in the tree by using the maximum key in the left subtree.

7.	Professor Bunyan thinks he has discovered a remarkable property of binary search trees. Suppose that the search for key k in a binary search tree ends up in a leaf. Consider three sets: $A$ , the keys to the left of the search path; $B$ the keys on the search path; and $C$ , the keys to the right of the search path. Professor Bunyan claims that any three keys $a \in A$ , $b \in B$ , and $c \in C$ must satisfy $a \le b \le c$ . Is this true? If so, explain how this is the case. If not, give a possible counterexample to the professor's claim.