Review Test Submission: Quiz 4: Trees - Heaps

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Course	UML Computing II - Sec MW1 SU19 JMwaura
Test	Quiz 4: Trees - Heaps
Started	8/10/19 11:08 PM
Submitted	8/10/19 11:09 PM
Due Date	8/12/19 11:30 PM
Status	Completed
Attempt Score	5 out of 5 points
Time Elapsed	1 minute out of 30 minutes
Results Displayed	Submitted Answers, Correct Answers

Question 1

1 out of 1 points

In a breadth-first traversal of a min heap, the first item printed out is always the smallest one

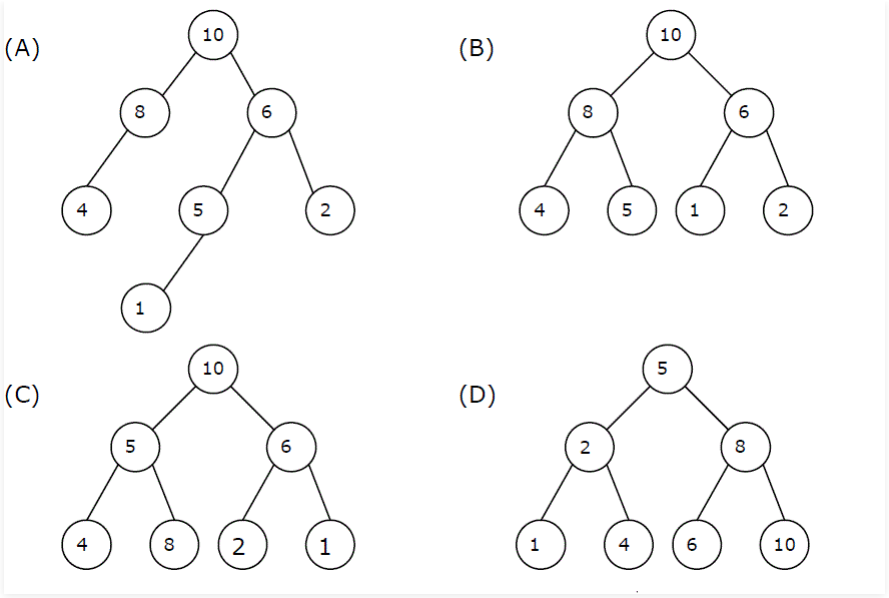
Selected Answer: True

Correct Answer: True

Question 2

1 out of 1 points

A max-heap is a heap where the value of each parent is greater than or equal to the values of its children. Which of the following is a max-heap?



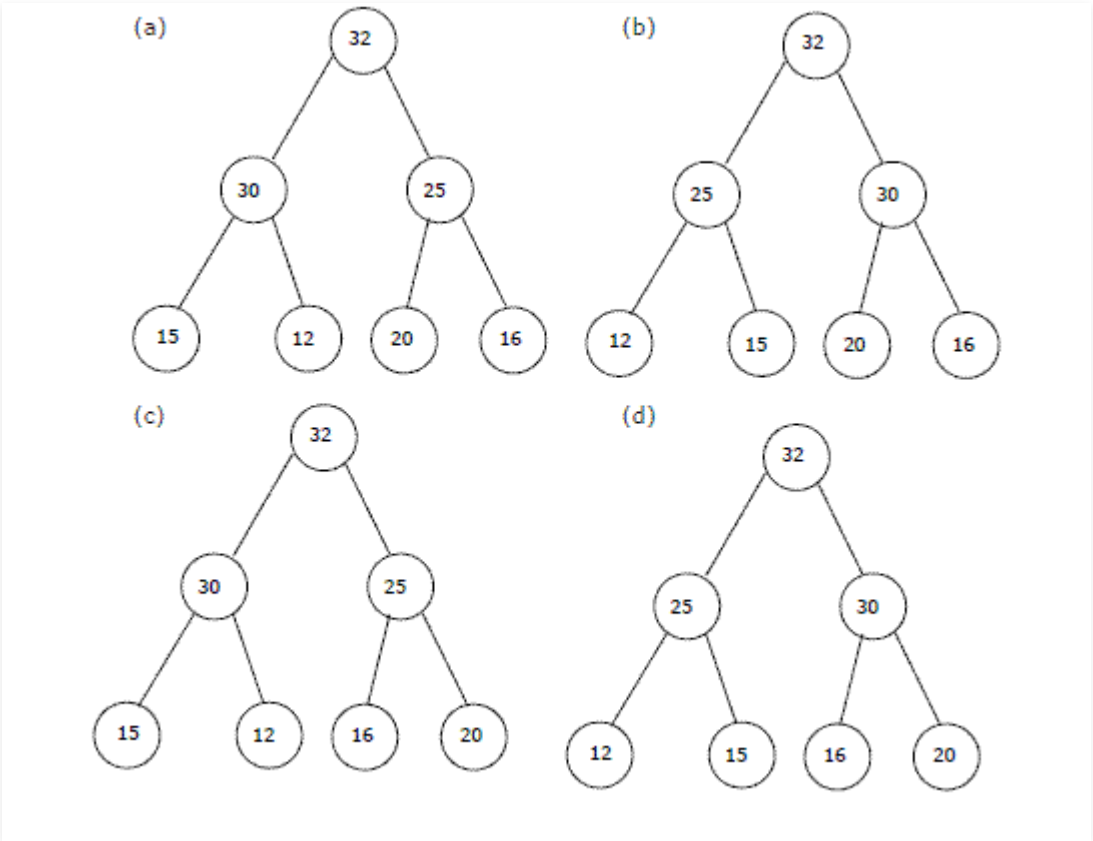
Selected Answer: b. B

Correct Answer: b. B

Question 3

1 out of 1 points

The elements 32, 15, 20, 30, 12, 25, 16 are inserted one by one in the given order into a Max Heap. The resultant Max Heap is.



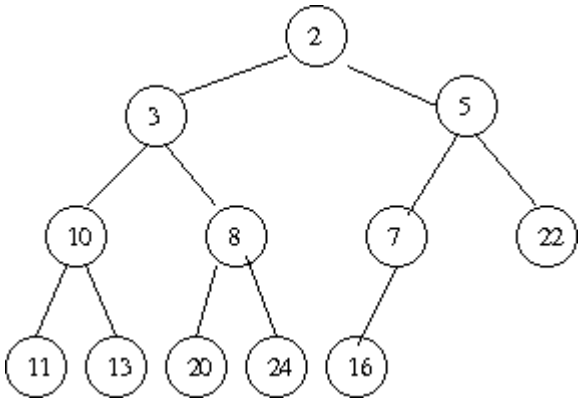
Selected Answer: a. A

Correct Answer: a. A

Question 4

1 out of 1 points

Show how the min heap below would be implemented in an array.



Selected Answer: 2, 3, 5, 10, 8, 7, 22, 11, 13, 20, 24, 16

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
Exact Match	[2,3,5,10,8,7,22,11,13,20,24,16]	
Exact Match	2,3,5,10,8,7,22,11,13,20,24,16	
Exact Match	2, 3, 5, 10, 8, 7, 22, 11, 13, 20, 24, 16	
Exact Match	[2, 3, 5, 10, 8, 7, 22, 11, 13, 20, 24, 16]	

Question 5

1 out of 1 points

In a binary max heap containing n numbers, the smallest element can be found in time

Selected Answer: a. **O**(n)

Correct Answer: a. **O**(n)

Saturday, August 10, 2019 11:09:55 PM EDT

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