

	Started on	Sunday, 9 April 2023, 10:18 PM	
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	State	Finished	
Con	npleted on	Sunday, 9 April 2023, 10:42 PM	
Т	ime taken	23 mins 46 secs	
	Marks	7.00/8.00	
	Grade	8.75 out of 10.00 (87.5 %)	
Question 1			
Correct	. (1.00		
Mark 1.00 oı	ut of 1.00		
Select th	ne disadvan	itage of Binary Search among provided	
○ a.	Doesn't out	tperform Linear Search	
O b.	Requires Tr	ree data structure	
C.	Requires a	sequential storage 🗸	
d.	Requires r\	ecursion to search	
	rect answer	is: Requires a sequential storage	
The correct Mark 1.00 or		is: Requires a sequential storage	
Question 2 Correct Mark 1.00 ou	ut of 1.00	is: Requires a sequential storage ing statement(s) is/are correct regarding a binary searce	ch
Question 2 Correct Mark 1.00 or Which of tree? a.	ut of 1.00 f the follow Basic opera		√
Question 2 Correct Mark 1.00 or Which of tree? a.	ut of 1.00 f the follow Basic opera time propo	ing statement(s) is/are correct regarding a binary searc ations on any randomly built binary search tree take	√
Question 2 Correct Wark 1.00 or Which o tree? a. b.	ut of 1.00 f the following Basic operatime propo It takes O(I	ing statement(s) is/are correct regarding a binary searc ations on any randomly built binary search tree take rtional to the height of the tree.	th →
Question 2 Correct Wark 1.00 or Which o tree? a. b.	ut of 1.00 f the following Basic operatime propool It takes O(I) The expect n).	ing statement(s) is/are correct regarding a binary searc ations on any randomly built binary search tree take rtional to the height of the tree. g n) time to walk an n-node binary search tree.	~
Question 2 Correct Mark 1.00 of Which of tree? a. b. c. d.	ot of 1.00 It takes O(I The expect n). Basic operatime.	ing statement(s) is/are correct regarding a binary searc ations on any randomly built binary search tree take rtional to the height of the tree. g n) time to walk an n-node binary search tree is O(lg	✓

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Question 3
Correct
Mark 1.00 out of 1.00
 Following is a pseudo code to check given two Binary Trees are identical or not.
 // Data structure for binary tree
 class Node{
      int key;
      Node left, right;
 }
 //Algorithm
 int isEqual(Node a, Node b)
      if (Condition 1)
           return true;
      return (Condition 2) &&
               (Condition 3) &&
               isEqual( a.left, b.left ) &&
               isEqual( Condition 4 );
 }
 select correct conditions for appropriate places.
  Condition 4
                a.right, b.right
  Condition 2
                a != null && b!=null $
  Condition 1
                x == null && y == null $
  Condition 3
                a.key == b.key
 The correct answer is: Condition 4 \rightarrow a.right, b.right, Condition 2 \rightarrow a != null &&
 b!=null, Condition 1 \rightarrow x == null && y == null, Condition 3 \rightarrow a.key == b.key
Question 4
Correct
Mark 1.00 out of 1.00
 Select whether the following statement is True/False.
 Binary\ Search\ is\ appropriate\ for\ linked\ lists
 Select one:
  O True
  ■ False 
  The correct answer is 'False'.
```

Question 5

Incorrect

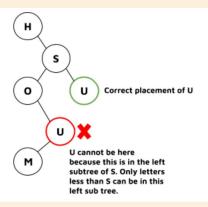
Mark 0.00 out of 1.00

Consider the following search probe sequences in a binary search tree. Which of these sequences is/are **not valid**? (priority is given according to order of letters in the alphabet, i.e. B has higher priority than A, C has priority than B and so on)

Select one or more:

- a. I, F, E, C, D X
- b. H, S, O, U, M
- ✓ d. H, S, O, M, N ★

Your answer is incorrect.



The correct answer is:

H, S, O, U, M

Question 6

Correct

Mark 1.00 out of 1.00

The height of a tree is the length of the longest root-to-leaf path in it. The maximum and the minimum number of nodes in a binary tree of height 5 are:

- a. 64 and 5, respectively
- b. 63 and 6, respectively

 ✓
- o. 32 and 6, respectively
- od. 31 and 5, respectively

The correct answer is: 63 and 6, respectively

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