

PAST PAPERS BY WAQAR SIDDHU

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Question No : 41 of 52	Marks: 2 (Budgeted Time 4 Min)
If we allow assignment to constants what will happen?	<u>A</u>
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Question No : 43 of 52	Marks: 2 (Budgeted Time 4 Min)
How we can search an element in Skip List?	
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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Convert this tree representation of a heap into the corresponding array representation	
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Question No : 45 of 52	Marks: 3 (Budgeted	d Time 6 Min) 🛛 🔲
When Hashing is NOT suitable?		<u>*</u>
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Question No : 46 of 52	Marks: 3 (Budgeted Time 6 Min) 📃
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Question No: 47 of 52

Marks: 3 (Budgeted Time 6 Min)

The following array represents a heap structure:

1	2	3	4	5	6	7	8	9	10	11	12
97	76	61	42	54	59	31	23	17	44	49	

Insert a new value 86 into the heap. Show the resultant heap, after insertion, in the form of array

Answer (Please click here to Add Answer)

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Question No : 48 of 52	Marks: 3 (Budgeted Time 6 Min)	
How many parameters are required for performing the following operations on Table? Also tell names of those parameters. 0. insert 1. find 3. remove		A P
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Question No : 49 of 52	Marks: 5 (Budgeted Time 10 Min)	0
Here is a small binary tree:		-
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ywith exactly 15 elements:
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15.
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Suppose that we are doing a binary search for an element. Indicate any elements that will be found by examining two or fewer numbers from the array.

Answer (Please click here to Add Answer)

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Consider the min-heap represented in the following array:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
10	20	30	50	40	70	60	80	90	110	100	130	120	140	150

Show the updated min-heap in the array after deleting 10.

Answer (Please click here to Add Answer)

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Question No : 52 of 5	2	1

Given input {23, 46, 12, 59, 78, 87, 2, 3} and a hash function h(x) =x mod 11, show the resulting "Chaining hash table".

Answer (Please click here to Add Answer)

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Question No : 44 of 52	Marks: 2 (Budgeted Time 4 Min)	
What is maximum level difference between two leaf nodes in a Heap? Justify your answer as well.		
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"For smaller lists, linear insertion sort performs well, but for larger lists, quick sort is suitable to apply." Justify why?		
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Question No : 47 of 52	Marks: 3 (Budgeted Time 6 Min)	-
The following array represents a heap structure:		
1 2 3 4 5 6 7 8 9 10 11 12 97 76 61 42 54 59 31 23 17 44 49		•
Insert a new value 86 into the heap. Show the resultant heap, after insertion, in the form of array		
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Here is an array of ten integers: 5389170264 Sort the array by using selection sort algorithm and show content of array after each step.		
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Insert nodes 59 and 77 into the following AVL tree. You have to balance the AVL tree.		
Steps are not required. Only show the resultant AVL tree.		
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Write and explain the code for "Union" and "Find" operations of Parent array in disjoint sets.		
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Question No : 45 of 52	Marks: 3 (Budgeted Time 6 Min)	
"For smaller lists, linear insertion sort performs well, but for larger lists, quick sort is suitable to apply." Justify why?		
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Question No : 46 of 52	Marks: 3 (Budgeted Time 6 Min)	
Consider the following Max Heap add node 24 in it and show the resultant Heap,		
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Question No : 47 of 52	Marks: 3 (Budgeted Time 6 Min)	
What will be the output of following linked list function ?		
void LinkList::mystery(){		
Node * temp = headNode; int result = 0;		
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Answer(Please <u>click here</u> to Add Answer)		
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Question No : 48 of 52	Marks: 3 (Budgeted Time 6 Min)	
Why binary search can not be used for linked list?		
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Question No : 49 of 52	Marks: 5 (Budgeted Time 10 Min)	
Consider the following sequence of union commands on the set of elements		
{1,2,3,4,5}:		-
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Question No : 50 of 52	Marks: 5 (Budgeted Time 10 Min)	
Consider the min-heap represented in the following array:		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 10 20 30 50 40 70 60 80 90 110 100 130 120 140 150		•
Show the updated min-heap in the array after deleting 10 .		
Answer (Please <u>click here</u> to Add Answer)		
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Question No : 51 of 52	Marks: 5 (Budgeted Time 10 Min)	
Draw the resultant binary search tree (BST) after deleting the node 10 from the following BST.		
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Question No : 52 of 52	Marks: 5 (Budgeted Time 10 Min)	
Sort the list [2 9 7 5 8] through insertion sort algorithm, show each step in your solution.		
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Question No : 41 of 52

4

For a perfect binary tree of height 5, What will be the sum of heights of nodes?

Answer (Please click here to Add Answer)

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What are postfix expressions?	
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4

Give any two important characteristics of skip list. VuAnswers.com Answer (Please click here to Add Answer) □ 😂 🖩 💁 🔃 🕺 🏦 🗠 ⇔ 🖊 🖏 🕄 🖷 ¶ 😨 100% 🔽 ▼ 12 ▼ B Z U ■ 冨 冨 国 に 旧 伊 伊 💌 Arial Normal Made by: Waqar Siddhu

Question No: 44 of 52

4

Marks: 2 (Budgeted Time 4 Min)

In array representation of Union operation, what does "-1" represent on a particular index?

Answer (Please click here to Add Answer)

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Which implementation of disjoint set is better with respect to space and why?

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Question No : 46 of 52

4

The following array represents a heap structure:

1	2	3	4	5	6	7	8	9	10	11	12
97	76	61	42	54	59	31	23	17	44	49	

Insert a new value 86 into the heap. Show the resultant heap, after insertion, in the form of array

Answer (Please click here to Add Answer)

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Question No : 47 of 52

4

Here is an array of ten integers:

3598170264

Draw this array after the FIRST iteration of main loop in selection sort algorithm (sorting from smallest to largest).

Answer (Please click here to Add Answer)

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Question No: 48 of 52

4

For time-based simulation model for bank system, below is the pseudo code of routine of the clock.

clock = 0;while (clock <= 24*60) { // one day read new customer; if customer arrivaltime == clock

Answer (Please click here to Add Answer)

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Question No : 49 of 52

4

Here is an array with exactly 15 elements:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15.

Suppose that we are doing a binary search for an element. Indicate any elements that will be found by examining two or fewer numbers from the array.

Answer (Please click here to Add Answer)

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Question No : 50 of 52

4

Here is an array of ten integers: 5389170264

Sort the array by using selection sort algorithm and show content of array after each step.

Answer (Please click here to Add Answer)

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Question No : 51 of 52

4

Write a public method for Linked List class called remove first() that removes the first element of linked list.

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Answer (Please click here to Add Answer)

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Question No : 52 of 52

4

Apply BuildHeap method on the elements of following array (reading from left to right) to convert them into a Min Heap. Show its contents in the form of array as shown below,

original array	6	5	3	9	1	2	10	8	
Heapified array	42	h2	1	ŕ	ŕ	-	50	22	88

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Question No : 41 of 52

4

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Answer (Please click here to Add Answer)

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Question No: 44 of 52

4

Marks: 2 (Budgeted Time 4 Min)

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Answer (Please click here to Add Answer)

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Question No : 46 of 52

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Question No : 47 of 52

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Question No: 48 of 52

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Question No : 49 of 52

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Question No : 50 of 52

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Question No : 51 of 52

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Write a public method for Linked List class called remove first() that removes the first element of linked list.

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Question No : 52 of 52

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Heapified array	42	h2	1	ŕ	ŕ	-	50	22	<u>88</u>

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