Started on	Friday, 28 June 2024, 6:40 PM	
State	Finished	
Completed on	Friday, 28 June 2024, 6:50 PM	
Time taken	10 mins 21 secs	
Marks	9/10	
Grade	10 out of 11 (90%)	
Question 1		
Complete		
Mark 1 out of 1		
Walk I out of I		
A characteristic of t	he data that binary search uses but the linear search ignores is the	
a. Order of th	e elements of the list.	
b. Length of the list.		
○ c. Maximum value in list.		
d. Type of ele	ments of the list.	
Question 2		
Complete		
Mark 1 out of 1		
In a double-ended o	queue (deque), where can elements be added and removed?	
a. Only at the	front	
b. Only at the		
	front and rear	
d. In the mide		
2		
Question 3		
Complete		
Mark 1 out of 1		
In a linear search a	lgorithm, worst case occur.	
a. If the key e	element is exist at first position in the list.	
	element is exist at last position in the list.	
	element does not exist in the list.	
	element either exists at last position or does not exist in the list.	
u. II tile key e	mement entre exists at last position of does not exist in the list.	

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Question 4	
Complete	
Mark 0 out of 1	
In a singly linked lis	t, if you have a pointer to a node, how can you delete that node from the list efficiently?
a. Update the	pointer to point to the next node and then free the memory
b. Traverse th	ne entire list to find the previous node and update its next pointer
c. Maintain ar	n additional pointer to the previous node while traversing the list
Od. Reverse th	e list and then delete the node
oto E	
Question 5	
Complete	
Mark 1 out of 1	
In Which sorting alg	orithm elements which are at two consecutive positions get compared.
a. Selection S	Sort
b. Bubble Sor	
c. Insertion S	
d. None Of Th	
Question 6	
Complete	
Mark 1 out of 1	
We can efficiently re	everse a string using a
a. linear queu	e
b. circular que	eue
c. stack	
od. doubly link	ed list
Question 7	
Complete	
Mark 1 out of 1	
What is an advanta	ge of the heap over a stack.
a. The heap is	s more flexible than the stack.
	ace for the heap can be dynamically allocated and de-allocated as needed.
	ry of the heap can at times be slower when compared to that stack.
d. A and B.	y a series and an arrest and arrest arrest and arrest arrest and arrest a

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Question	В
Complete	
Mark 1 out	of 1
What is	s the best time complexity of bubble sort?
(a.	O[No]^2
b.	O[No] log n
C.	O[No]
○ d.	O[No] (Log n)^2
Question	9
Complete	
Mark 1 out	of 1
a.b.	In a SLLL, traversal can be done only in a forward direction. In a SLLL, add and delete node at last position operations takes O[No] time.
) C.	
	In SLLL, previous node of any node can be accessed from it.
Question	10
Complete	
Mark 1 out	of 1
Walk 2 out	<u> </u>
	eve to sort a list L consisting of a sorted list followed by a few "random" elements. Which of the following sorting methods would be ally suitable for such a task?
_ a.	Bubble sort
○ b.	Selection sort
○ C.	Quick sort
h	Insertion sort