DS 1 *Required	
Email address *	
Your email	
Any node is the path from the root to the node is called	1 point
A Ancestor node	
O B Successor node	
O C Internal nodee	
O None of the abov	
Which one of the following permutations can be obtained the output using stack assuming that the input is the sequence 1,2,3,4,5 in that order?	1 point
3,4,5,2,1	
O B 3,4,5,1,2	
C 5,4,3,1,2	
O 1,5,2,3,4	

When determining the efficiency of algorithm, the space  1 point factor is measured by	
A Counting the maximum memory needed by the algorithm	
B Counting the minimum memory needed by the algorithm	
C Counting the average memory needed by the algorithm	
O Counting the maximum disk space needed by the algorithm	
In linear search algorithm the Worst case occurs when 1 point	
A The item is somewhere in the middle of the array	
B The item is not in the array at all	
C The item is the last element in the array	
O The item is the last element in the array or is not there at all	
is not the component of data structure 1 point	
O .A Operations	
O B Algorithms	
C Storage Structures	
O D None of above	
The elements of an array are stored successively in memory 1 point cells because	
A by this way computer can keep track only the address of the first element and the addresses of other elements can be calculated	
B the architecture of computer memory does not allow arrays to store other than serially	
O C both of above	
O D none of above	

Which of the following is not the part of ADT description?	1 point
O A Data	
O B Operations	
O Both of the above	
O None of the above	
Which of the following statement is true ?	1 point
A Breath first search cannot be used to find converted components of a graph.	ì
O B Optimal binary search tree construction can be performed efficiently using dynamic programming.	
C Given the prefix and post fix walks over a binary tree. The binary tree cannot be uniquely constructe	
D Depth first search can be used to find connected components of a gra	aph.
Linked list are not suitable data structure of which one of the following problems?	1 point
	1 point
the following problems ?	1 point
the following problems ?  O Binary search	1 point
the following problems?  Binary search  B Insertion sort	1 point
the following problems?  Binary search  Binsertion sort  C Radix sort	1 point 1 point
the following problems?  Binary search Binsertion sort C Radix sort D Polynomial manipulation  When new data are to be inserted into a data structure, but	
the following problems?  Binary search  Binsertion sort  CRadix sort  DPolynomial manipulation  When new data are to be inserted into a data structure, but there is no available space; this situation is usually called	
the following problems?  Binary search  C Radix sort  D Polynomial manipulation  When new data are to be inserted into a data structure, but there is no available space; this situation is usually called  A underflow	

Which of the following algorithm design technique is used in 1 point the quick sort algorithm?	
O Dynamic programming	
B Greedy method	
C Divide and conquer	
O D Backtracking	
Submission ID (skip this field) *  A DO NOT EDIT this field or your responds may not be fully recorded.	
Your answer	
When inorder traversing a tree resulted E A C K F H D B G; 1 point the preorder traversal would return	
○ A FAEKCDBHG	
O B FAEKCDHGB	
○ C EAFKHDCBG	
O D FEAKDCHBG	
A is a data structure that organizes data similar to a line in the supermarket, where the first one in line is the first one out.	
A Stacks linked list	
O B Queue linked list	
C Both of them	
O Neither of them	

DS 1

Which of the following data structure cant store the non-homogeneous data elements?	1 point
A Arrays	
O B Records	
O C Pointers	
O D None	
A variable P is called pointer if	1 point
A P contains the address of an element in DATA.	
B P points to the address of first element in DATA	
C P can store only memory addresses	
D P contain the DATA and the address of DATA	
Which of the following is true about the characteristics of abstract data types? i) It exports a type. ii) It exports a set operations	1 point
True, False	
O B False, True	
C True, True	
O D False, False	
Which if the following is/are the levels of implementation of data structure	of 1 point
A Application level	
B Abstract level	
C Implementation level	
O D All of the above	

E

The number of swapping needed to sort numbers 8,22,7,9,31,19,5,13 in ascending order using bubble sort is?	1 point
O 11	
O B 12	
O C 13	
O D 14	
Given two sorted lists of size m and n respectively. The number of comparisons needed in the worst case by the merge sort algorithm will be?	1 point
O A mn	
○ B max(m,n)	
C min(m,n)	
O m+n-1	
The initial configuration of the queue is a,b,c,d (a is the front end). To get the configuration d,c,b,a one needs a minimum of ?	1 point
3 additions and 2 deletions	
B 2 deletions and 3 additions	
C 3 deletions and 4 additions	
O 3 deletions and 3 additions	

DS 1

differ in hight by at most 1 unit is called	1 point
O A AVL tree	
B Red-black tree	
O C Lemma tree	
O None of the above	
When determining the efficiency of algorithm the time faction is measured by	tor 1 point
A Counting microseconds	
B Counting the number of key operations	
C Counting the number of statements	
D Counting the kilobytes of algorithm	
The complexity of Ripary search algorithm is	
The complexity of Binary search algorithm is	1 point
A O(n)	1 point
	1 point
○ A O(n)	1 point
<ul><li>○ A O(n)</li><li>○ B O(log)</li></ul>	1 point
<ul><li>○ A O(n)</li><li>○ B O(log)</li><li>○ C O(n2)</li></ul>	1 point
<ul> <li>A O(n)</li> <li>B O(log)</li> <li>C O(n2)</li> <li>D O(n log n)</li> </ul>	
<ul> <li>A O(n)</li> <li>B O(log)</li> <li>C O(n2)</li> <li>D O(n log n)</li> </ul> Linked lists are best suited	1 point
<ul> <li>A O(n)</li> <li>B O(log)</li> <li>C O(n2)</li> <li>D O(n log n)</li> <li>Linked lists are best suited</li> <li>A for relatively permanent collections of data</li> <li>B for the size of the structure and the data in the structure are const</li> </ul>	1 point

E

Is a pile in which items are added at one end and refrom the other.	emoved 1 point
O A Queue	
O B Stack	
O C List	
O None of the above	
Send me a copy of my responses.	
Page 1 of 1	SUBMIT
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