DS 2	
* Required	
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For an un-directed graph with n vertices and e edges, the sum of the degree of each vertex is equal to	1 point
O A) 2n	
O B) (2n-1)/2	
O C) 2e	
O D) e2/2	
The number of leaf nodes in a complete binary tree of depth d is	1 point
O A) 2d	
B) 2d−1+1	
O C) 2d+1+1	

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O D)2d+1

Merging 4 sorted files containing 50, 10, 25 and 15 records will taketime	1 point
O A) O (100)	
O B) O (200)	
O C) O (175)	
O D) O (125)	
You have to sort a list L consisting of a sorted list followed by a few "random" elements. Which of the following sorting methods would be especially suitable for such a task?	1 point
A) Bubble sort	
O B) Selection sort	
C) Quick sort	
O D) Insertion sort	
What is the following code segment doing? void fn() { char c; cin.get(c); if (c != '\n') { fn(); cout.put(c); } }	1 point
A) The string entered is printed as it is	
B) The string entered is printed in reverse order	
C) It will go in an infinite loop	
O) It will print an empty line	

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defined on that model is called	point
A) Data Structure	
O B) Abstract Data Type	
C) Primitive Data Type	
O D) Algorithm	
If a node in a Binary Search Tree has two children, then its in-order predecessor has	point
A) No right child	
O B) No left child	
C) Two children	
O D) One child	
A technique for direct search is	point
A technique for direct search is A) Binary Search	ooint
	point
A) Binary Search	point
A) Binary Search B) Linear Search	point
 A) Binary Search B) Linear Search C) Tree Search D) Hashing 	point
 A) Binary Search B) Linear Search C) Tree Search D) Hashing If a node having two children is deleted from a binary tree, it	
 A) Binary Search B) Linear Search C) Tree Search D) Hashing If a node having two children is deleted from a binary tree, it is replaced by its	
 A) Binary Search B) Linear Search C) Tree Search D) Hashing If a node having two children is deleted from a binary tree, it is replaced by its A) Inorder predecessor 	

If h is any hashing function and is used to hash n keys in to a table of size m, where n<=m, the expected number of collisions involving a particular key x is	1 point
A) less than 1	
O B) less than n	
C) less than m	
O D) less than n/2	
The complexity of multiplying two matrices of order m*n and n*p is	1 point
O A) mnp	
○ B) mp	
O C) mn	
O D) np	
The process of accessing data stored in a tape is similar to manipulating data on a	1 point
O A) Stack	
O B) Queue	
O C) List	
O D) Heap	

Linked lists are not suitable for which of the following problems?	1 point
A) Insertion sort	
O B) Binary search	
C) Radix sort	
O) Polynomial manipulation	
The number of interchanges required to sort 5, 1, 6, 2 4 in ascending order using Bubble Sort is	1 point
O A)6	
O B)5	
O C)7	
O D)8	
A full binary tree with 2n+1 nodes contain	1 point
A) n leaf nodes	
B) n non-leaf nodes	
C) n-1 leaf nodes	
O D) n-1 non-leaf nodes	
B Trees are generally	1 point
A) very deep and narrow	
B) very wide and shallow	
C) very deep and very wide	
O D) cannot say	

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In worst case Quick Sort has order	1 point	
A) O (n log n)		
O B) O (n2/2)		
O C) O (log n)		
O D) O (n2/4)		
The searching technique that takes O (1) time to fir	nd a data 1 point	
A) Linear Search		
O B) Binary Search		
O C) Hashing		
O D) Tree Search		
Which of the following algorithm design technique is used in 1 point the quick sort algorithm?		
A) Dynamic programming		
B) Backtracking		
C) Divide and conquer		
O D) Greedy method		
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