\* Required

Email address \*

Your email

For an un-directed graph with n vertices and e edges, the sum of the degree of each vertex is equal to

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- ( A) 2n
- B) (2n-1)/2
- O C) 2e
- O D) e2/2

The number of leaf nodes in a complete binary tree of depth 1 point d is

- ( A ) 2d
- O B) 2d−1+1
- C) 2d+1+1
- 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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A mathematical-model with a collection of operations  defined on that model is called	ooint
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	ooint
A) No right child	
B) No left child	
C) Two children	
O D) One child	
A technique for direct search is	ooint
A technique for direct search is  A) Binary Search	point
	ooint
A) Binary Search	point
A) Binary Search B) Linear Search	point
<ul> <li>A) Binary Search</li> <li>B) Linear Search</li> <li>C) Tree Search</li> <li>D) Hashing</li> </ul>	point
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a table of size m, where n<=m, the expected number of collisions involving a particular key x is	i 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
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
A) Stack	
B) Queue	
O C) List	
O D) Heap	

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Linked lists are not suitable for which of the following problems?	1 point
A) Insertion sort	
B) Binary search	
C) Radix sort	
O D) 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 find a data is	1 point
A) Linear Search	
B) Binary Search	
C) Hashing	
O D) Tree Search	
Which of the following algorithm design technique is used in the quick sort algorithm?	1 point
A ) Dynamic programming	
B) Backtracking	
C) Divide and conquer	
O D) Greedy method	
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