

all_2017_INFO6205_Quiz_5	30 minutes
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Question - 1 Binary Search		SCORE: 5 points	
	he least and greatest number of key compares that a Binary Igorithm might use for a sorted array of size N.		
	Least : 1, Most:logN		
	Least : 1, Most: N		
•	Least : 1, Most: logN+1		
	None of the above		
Questio Hashcoo	on - 2 des and Equality	SCORE: 5 points	
Which of	the following is/are true. (Select all that apply)		
•	If x.equals(y), x.hashCode() must be equal to y.hashCode().		
	If x.hashCode()=y.hashCode(), then x.equals(y).		
•	If x.equals(y), x.compareTo(y) must be equal to 0		
	All of the above		
Question Reverse	on - 3 Polish Notation	SCORE: 5 points	
What will Notation? 4 3 2 + 1			
	31		
	67		
	39		
•	39		
•	None of the above		

what do each of the following print?

a. System.out.println('b');

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b. System.out.println('b' + 'c');c. System.out.println((char) ('a' + 4));	
b , 197, e	
b, bc, a4	
b, 197, 99	
It throws an Exception	
Question - 5 Array Manipulations	SCORE: 5 points
What will be the value of a[8] after execution of the following code :	
int[] a = new int[10]; for (int i = 0; i < 10; i++)	
a[i] = 9 - i; for (int i = 0; i < 10; i++) a[i] = a[a[i]];	
α[1] - α[α[1]],	
8	
O 7	
<u> </u>	
Question - 6 Linked List Nodes	SCORE: 5 points
Suppose x is a linked-list node and not the last node on the list. What is the efect of the following code fragment?	
<pre>x.next = x.next.next;</pre>	
Deletes the node x from the list	
Deletes the node immediately following x from the list	
Deletes the node immediately following x.next;	
None of the above	
Question - 7 Binary Search Condtion	SCORE: 5 points

True or False: it's always safe to use mid = (low + high) / 2 in binary search.

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Question - 8 Array vs Linked List	SCORE: 5 points
Which of the following points is/are true about a Linked List data structure when compared with an Array? Arrays have better cache locality that can make them better in terms of	
cerformance. Random access is not allowed in the typical implementation of a linked ist.	
The size of array has to be pre-decided, linked lists can change their size any time.	

All of the above.