

1	<p>Find out the incorrect statement</p> <p>a) Accessing an element is easier in an array than in the list.</p> <p>b) Link list wastes memory in saving pointer addresses.</p> <p>c) Insertion and deletion is easy in arrays.</p> <p>d) Memory is wasted in arrays because all of the array may not be utilized.</p>
2	<p>Find out the incorrect statement</p> <p>a) An Algorithm is a finite sequence of steps where each step is unambiguous and which terminates for all possible inputs in a finite amount of time.</p> <p>b) An algorithm should be scalable for future improvements and for all input sizes.</p> <p>c) Algorithm is a program and can be written in any High Level Language</p> <p>d) Algorithm should be simple, readable and working correctly.</p>
3	<p>Five items 1,2,3,4,5 are pushed in a stack in order starting from 1. The stack is popped four times & popped elements are inserted in a queue then two elements are deleted from the queue & pushed back in the stack. Now one element is popped from the stack, the popped element is</p> <p>a) 4 b) 3 c) 2 d) 1</p>
4	<p>The minimum time will be taken by the algorithm of complexity</p> <p>A) $\log n$ B) n C) $n \log n$ D) n^2 E) n^3</p>
5	<p>for $3n^3 + 20n^2 + 5$ The order notation using Big oh notation is</p> <p>c) $O(n^3)$ b) $O(n^2)$ $O(n)$ d) 5</p>
6	<p>Bill has an algorithm, find2D, to find an element x in an $n \times n$ array A. The algorithm find2D iterates over the rows of A & calls the algorithm arrayFind on each row, until x is found or it has reached all rows of A. What is the worst case running time of find2D in terms of n?</p> <p>A) n B) $\log(n)$ C) n^2 D) $n(\log(n))$</p>
7	<p>$T(n) = 2T(n/2) + n \log n$ Using Master theorem what will be $T(n)$</p> <p>A) $n(\log(n))$ B) $\log(n)$ C) $n \log^2 n$ D) $n^2 \log n$</p>
8	<p>In Strassen's Multiplication Algorithm the $T(n)$ is</p> <p>A) $7T(n) + bn^2$ B) $7T(n/2) + bn^2$</p> <p>C) $8T(n/2) + bn^2$ D) $7T(n/2) + bn$</p>