

1	<p>Write Short Notes/Comments on the Following statements</p> <ul style="list-style-type: none"> a) Every Problem requires an intelligent selection of data structure based on problem characteristics b) All optimization Problems cannot be handled with Greedy strategy. c) Divide and Conquer Strategy Reduces the work to be done due to emphasis on different sections of the algorithms namely divide, conquer and combine
2	<p>Discuss the Deletion in an AVL Tree. Write all the steps involved with proper diagrams and examples.</p>
3	<p>Differentiate Between DFS and BFS of a Graph. Write Algorithms for both cases.</p>
4	<ul style="list-style-type: none"> a) Why Apriori Analysis is better than Posterior Analysis b) How Big oh notation makes the complexity of an algorithm dependent upon the input size. c) Whether you will use an array or link list for a stack implementation? Why? d) What are the issues in Binary Search Tree so that we need to look for other tree constructions? e) How Counting Sort is Range Dependent. f) What you understand by Stable Sorting.