

Questions Day 15/11/2021

- 1) What is an algorithm? What is the need for an algorithm?
- 2) What are the Asymptotic Notations? Mention what are the types of Notation used for Time Complexity?
- 3) What is Divide and Conquer algorithms?
- 4) Give some examples of Divide and Conquer algorithm?
- 5) What Are The Criteria Of Algorithm Analysis?
- 6) With suitable example explain time complexity and space complexity
- 7) Explain what is the difference between best case scenario, average case and worst case scenario of an algorithm with suitable example?
- 8) What are different techniques of sorting
- 9) State the difference between sorting techniques
- 10) Which sorting algorithm will you prefer and why and when?

Programs

- 1) WAP to accept an array and sort it using Bubble Sort technique
- 2) WAP to accept an array and sort it using Selection Sort technique
- 3) WAP to accept an array and sort it using Insertion Sort technique
- 4) WAP to accept an array and sort it using Merge Sort technique
- 5) WAP to accept an array and sort it using Quick Sort technique
- 6) WAP to accept an array and sort it using Heap Sort technique

