

Computer Engineering Department, S V N I T, Surat
Data Structure
Tutorial 1

Write an algorithm for given problem statements and give the dry run for the same:

- a) To merge two arrays of the same size sorted in descending order
- b) To print all unique elements in an array.
- c) To separate odd and even integers in separate arrays
- d) To accept two matrices and check whether they are equal.
- e) An array contains both positive and negative numbers in random order.
Rearrange the array elements so that all negative numbers appear before all positive numbers.
- f) Two sorted arrays, such that the arrays may have some common elements. Find the sum of the maximum sum path to reach from the beginning of any array to the end of any of the two arrays. We can switch from one array to another array only at common elements. And give the dry run for the same.
- g) for given two sorted arrays and a number x, find the pair whose sum is closest to x and the pair has an element from each array.