

Birla Institute of Technology & Science, Pilani
Second Semester 2013-2014, Computer Programming [CS F111]
Week #6 Practice Questions

Attempt these questions:

1. Write a program to reverse an array
2. Write a C program that, given an array A[] of n numbers and another number x, determines whether or not there exist two elements in S whose sum is exactly x.
3. Write a program to print all the LEADERS in the array. An element is leader if it is greater than all the elements to its right side. And the rightmost element is always a leader. For example in the array {16, 17, 4, 3, 5, 2}, leaders are 17, 5 and 2.
4. Write an efficient C program to find smallest and second smallest element in an array.
5. Union and Intersection of two sorted arrays
6. Write a C program to rotate a 2-D matrix by 90°.
7. A square matrix is called symmetric if for all the values of i and j, $a[i][j] = a[j][i]$. Write a program to verify if a 5x5 matrix is symmetric or not?
8. Write a program to print 2-D matrix in spiral form.
9. C Program to Find Ceiling & Floor of X given a Sorted Array & a value X
10. C Program to Segregate 0s on Left Side & 1s on right side of the Array
11. C Program to Find if a given Integer X appears more than N/2 times in a Sorted Array of N Integers
12. C Program to Find the two Elements such that their Sum is Closest to Zero