



भारतीय सूचना प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Information Technology Guwahati
COMPUTER PROGRAMMING LAB (CS110)
ASSIGNMENTS-08

1. Write a program in C to find a pair of elements in an array of `int` such that the sum of these elements is equal to a given number. If multiple such pairs exist, display them all.
2. Write a function in C to add an element at the desired position (index) of a given array.
Note: Some elements of the array may have to be shifted to make room for the element to be inserted.
3. Write a program in C to find the second-largest element in an array.
4. Write two programs in C to sort an array using Selection sort.
5. Write a program in C for the addition of two matrices of the same size.
6. Write a program in C for the subtraction of two matrices of the same size.
7. Write a program in C to find the transpose of a matrix.
8. Write a program in C for the multiplication of two matrices.
9. Write a program in C to store the marks of m students in n subjects in an array. Then, report the highest marks and lowest marks of each student with subject number.
10. Write a program in C to store n numbers in an array. Then, count the number of prime numbers and non-prime numbers using a function.
11. Write a program in C to arrange the elements of an array in ascending order.
12. You have been given 2 sorted integer arrays as input. Write a program in C to store the elements of two arrays in a third array (in ascending order).