



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

1. Write a function in C to find if a given integer  $x$  appears more than  $n/2$  times in an array of  $n$  integers.
2. Write a function in C to implement a linear search on an array.
3. Write a function in C to implement binary search on a sorted array.
4. Write a function in C to check whether an array is a subset of another array.
5. Write a function in C to implement selection sort.
6. Write a function in C to find the maximum subarray sum of a given array.
7. Write a function in C to find the maximum circular subarray sum of a given array.
8. Write a function in C to move all zeroes to the end of a given array.
9. Write a function in C to generate a random permutation of array elements.