

Data Structures and Algorithms Lab

Assignment-5

1. Write a menu-driven program to implement the following searching techniques using an array
(a) Linear or sequential search (b) Binary search
2. Write a menu-driven program to implement the following sorting techniques using an array
(a) Bubble sort (b) Insertion sort (c) Selection sort
3. Write a menu-driven program to implement the following sorting techniques using a single linked list (interchanging data)
(a) Bubble sort (b) Insertion sort (c) Selection sort
4. Write a menu-driven program to implement the following sorting techniques using a single linked list (interchanging links)
(a) Bubble sort (b) Insertion sort (c) Selection sort
5. Write a menu-driven program to implement the following sorting techniques using an array (recursive functions)
(a) Quick sort (b) Merge sort