

Programme	:	B.Tech	Semester	:	Fall 20-21
Course	:	Data structures and Algorithms (Embedded Lab)	Code	:	CSE2003
Faculty	:	Dr.B. Saleena / Dr.V.M.Nisha	Slot	:	L43+L44

Exercise No: 7

Brute Force Techniques

Q1. The share market price of a Product X varies over time interval of one hour inclusive of opening and closing time. The price in rupees recorded from 9 AM to 4 PM is as follows 40, 42, 44, 43, 46, 41, 47 and 45. **Sort** the prices in non-decreasing order and **search** for a given price in the list of recorded share prices. Implement all the below given algorithms.

Brute force algorithm for

- **Sorting - (Bubble Sort /Insertion sort/ Selection Sort)**
- **Searching – Linear Search**

Q2. There are n people who need to be assigned to n jobs, one person per job. The cost of assigning person i to job j is $C[i,j]$. Find an assignment that minimizes the total cost.

	Job 0	Job 1	Job 2	Job 3
Person 0	9	2	7	8
Person 1	6	4	3	7
Person 2	5	8	1	8
Person 3	7	6	9	4

Generate their costs and select the cheapest one.