Assignment 03

Problem 1:

Method A:

Big O Complexity of Method A is N³

Method B:

Big O Complexity of Method B is N

Method C:

Big O Complexity of Method B is N * Log₂ N

Problem 2:

Big O Complexity of BubbleSort is N²

Result:

For Input Array of length 5

```
Please enter the size of the Array : 5
Please enter the Elements of Array :

1
6
3
9
Run time in Nano Seconds :5900
Elements of Array in Sorted Order :
1
2
3
6
9
```

For Input Array of length 7

```
Please enter the size of the Array: 7
Please enter the Elements of Array:

1
99
3
6
8
25
2
Run time in Nano Seconds: 14900
Elements of Array in Sorted Order:
1
2
3
6
8
8
25
99
```