

Practice Problems 8

1. Execute MergeSort on the following elements:

5, 4, 8, 2, 5, 7, 2, 1

2. Questions on counting instructions

3. Count the instructions of the following code segment

```
sum1 = 0;
```

```
sum2 = 1;
```

```
sum3 = 0;
```

```
for (i=n ; i>0 ; i--)
```

```
    sum1++;
```

```
    for (j=2 ; j<10 ; j++)
```

```
        sum2++;
```

```
        sum3 = sum1+sum2;
```

4. Review of BigOh and understanding its definition