

OUTPUT

```
Enter the number of elements:
5
Enter the elements:
8
2
9
3
1

1.Selection sort
2.Bubble sort
3.Merge sort
4.Insertion sort
5.Exit
Enter your choice:1
The array sorted using selection sort is:
1 2 3 8 9 [1] + Done
```

```
Enter the number of elements:
5
Enter the elements:
8
2
9
3
1

1.Selection sort
2.Bubble sort
3.Merge sort
4.Insertion sort
5.Exit
Enter your choice:2
The array sorted using bubble sort is:
1 2 3 8 9 [1] + Done
```

```
Enter the number of elements:
5
Enter the elements:
8
2
9
3
1

1.Selection sort
2.Bubble sort
3.Merge sort
4.Insertion sort
5.Exit
Enter your choice:3
  2 8
This is the array sorted using merge sort
  1 3
This is the array sorted using merge sort
  1 3 9
This is the array sorted using merge sort
  1 3 9 2 8
This is the array sorted using merge sort
[1] + Done                                "/usr/bin/gdb" --
```

```
Enter the number of elements:
5
Enter the elements:
8
2
9
3
1

1.Selection sort
2.Bubble sort
3.Merge sort
4.Insertion sort
5.Exit
Enter your choice:4
The array sorted using insertion sort is:
  1 2 3 8 9 [1] + Done
```