## Selection Sort Count Count n2 Count n3 10 4.4 0044 0.044 100 49.49 4.949 × 103 0.4949 500 249.498 9.979 X104 0.498 1000 499.499 4.99 x 104 0.499 Merge Sout Count n3 Court Count 0.63 10 0.21 2.1 0.811 100 5.39 0.053 0.860 0.015 500 4.71 0.875 8.721 0.0087 1000 Quick Sort Count n3 Count Count n 0.026 0.36 2.6 10 7-2 X10+ 0.0722 7022 100 3.74x155 0.018704 9.3 500 1.16×105 0.011 11.667 1000

Number of times the basic operation is performed is 5 the sorted array is

```
× +
   C:\Benarji\merge_sort.exe
Enter the number of elements: 5
Enter those elements : 2
3
6
Sorted array is :1 2 3 4 6
Process exited after 11.25 seconds with return value 0
Press any key to continue . . .
```

C:\Benarji\quick\_sort.exe

 $\times$  +

Enter the number of elements: 6

Original array: 37 19 9 77 26 97

Sorted array: 9 19 26 37 77 97

Number of basic operations: 11

Process exited after 3.034 seconds with return value 0 Press any key to continue . . .