```
File  Edit  View  Search  Terminal  Help
182811308
1.Generate
2.Display
3.Sort ascending
4.Sort descending
5.Best case
6.Worst case
7.Average case
8.Total time complexity
9.exit
Enter your choice:1

Enter the number of elements:10

1.Generate
2.Display
3.Sort ascending
4.Sort descending
5.Best case
6.Worst case
7.Average case
8.Total time complexity
9.exit
Enter your choice:
```

```
File  Edit  View  Search  Terminal  Help
```

Input	average case	best case	worst case
5000	0.031497	0.000020	0.050443
10000	0.113476	0.000030	0.203355
15000	0.231376	0.000044	0.457167
20000	0.458525	0.000058	0.859096
25000	0.663684	0.000075	1.287831
30000	0.944192	0.000084	1.854924
35000	1.269748	0.000108	2.490706
40000	1.618069	0.000113	3.224608
45000	2.064908	0.000128	4.113266
50000	2.522603	0.000142	5.056185

```
Total time required for the excution of this option was: 49.210396
```