

Generate the test data with the following commands:

```
python gen_input.py
```

Test the data with the following commands:

```
python test.py
```

And finally I get the result:

<i>Number of Nodes</i>	<i>Number of Links</i>	<i>Execution Time (N*N)</i>
10	45	0.025
20	179	0.577
30	346	3.501
40	93	1.255
50	486	18.037

<i>Number of Nodes</i>	<i>Number of Links</i>	<i>Execution Time (N log N)</i>
10	45	0.027
20	179	0.828
30	346	4.409
40	93	0.551
50	486	16.128