Sl. No.	Value of n	Time Complexity		
		Random Data	Data in Ascending	Data in Descending
1	5000	0.014	0	0.022
2	10000	0.048	0	0.094
3	15000	0.107	0	0.204
4	20000	0.183	0	0.382
5	25000	0.297	0	0.593
6	30000	0.428	0	0.848
7	35000	0.579	0	1.151
8	40000	0.756	0	1.532
9	45000	0.967	0	2.005
10	50000	1.199	0	2.394

n vs timecomplexity
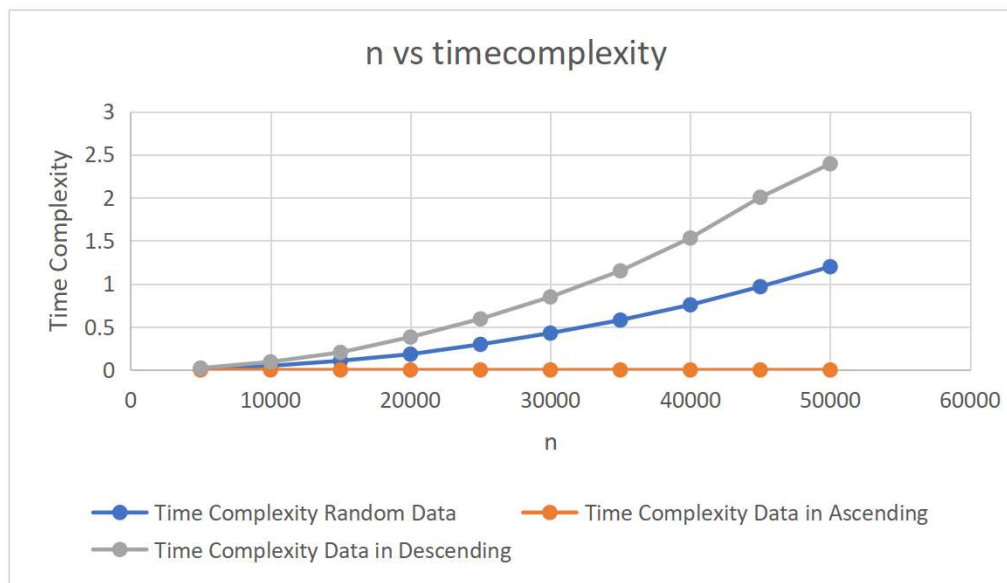
Sl. No.	Value of n	Time Complexity		
		Random Data	Data in Ascending	Data in Descending
1	5000	6125733	4999	12377342
2	10000	24921594	9999	49505915
3	15000	55807539	14999	111381713
4	20000	99455930	19999	198009703
5	25000	154307969	24999	309389352
6	30000	223161213	29999	445515331
7	35000	302814950	34999	606392592
8	40000	396550677	39999	792013349
9	45000	501265943	44999	1002394066
10	50000	618506071	49999	1237525540
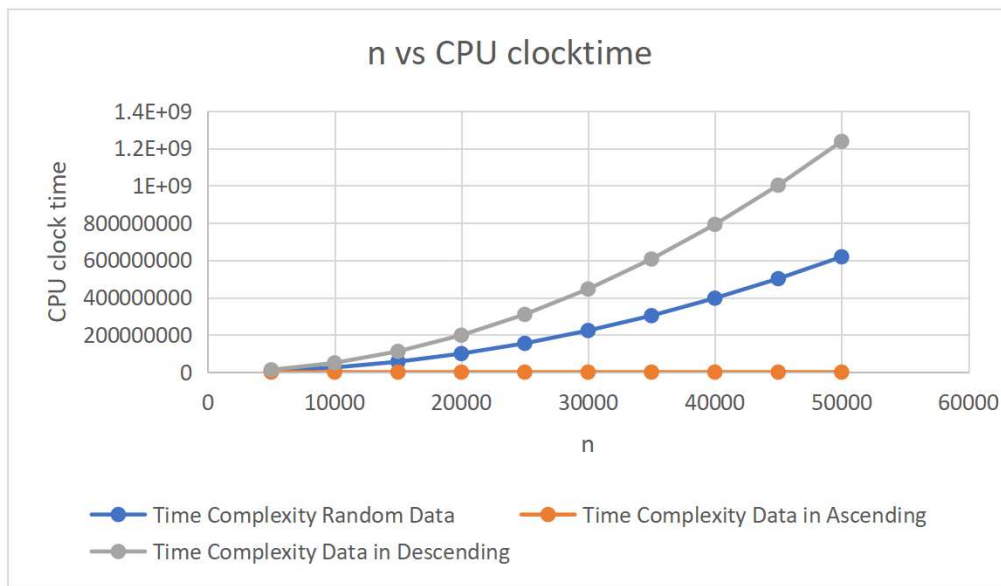

```
Enter the size of the matrix: 4

matrix:
0.410000 184.670000 63.340000 265.000000
191.690000 157.240000 114.780000 293.580000
269.620000 244.640000 57.050000 281.450000
232.810000 168.270000 99.610000 4.910000
The time taken to round the matrix is 0.000000

Rounded matrix:
0 185 63 265
192 157 115 294
270 245 57 281
233 168 100 5
PS C:\Users\KIIT01\Dropbox\PC\Desktop\DAA Lab\lab3\output>
```