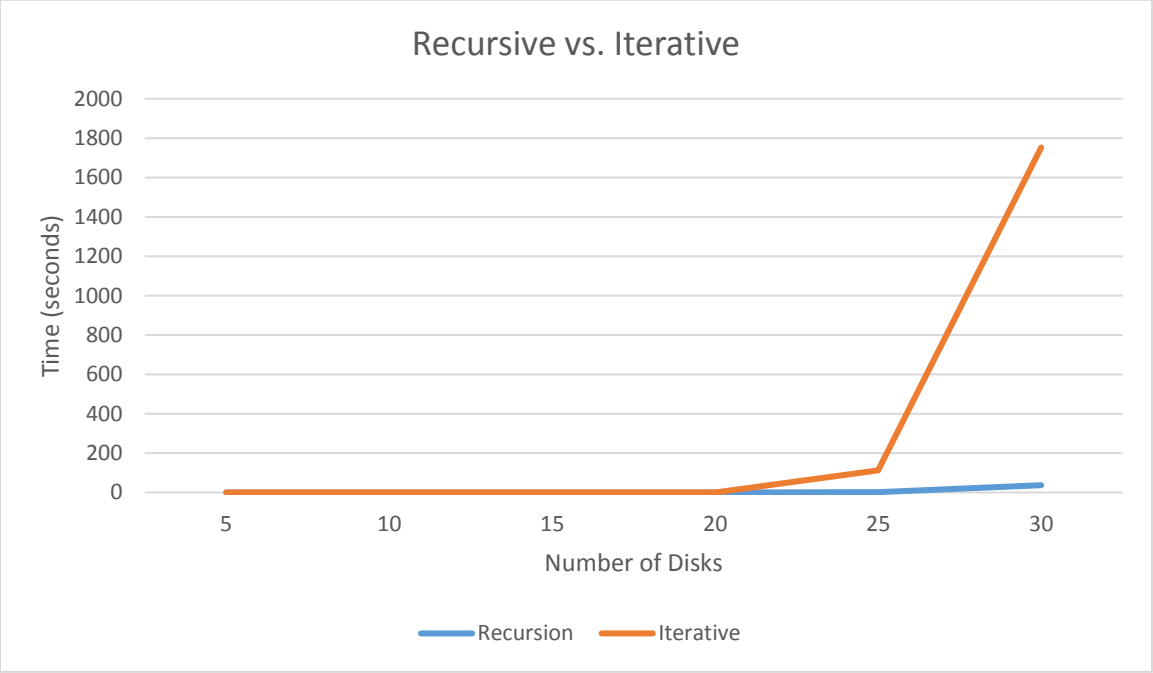
Anna Dubé

Assignment 5

3.



	Recursion	Iterative
5	0.000005	0.0002
10	0.00004	0.000175
15	0.0013	0.003937
20	0.13	0.2829
25	2.3526	111.615
30	36.9366	1752.3925

I estimated the time for the iterative test run with 30 disks because it was taking too long to run.

Iterative 30 disks: (111.615 s/2.3526 s) * 36.9366 s = 1752.3925 s (about 29 minutes)

I did not graph 50 disks because when I tried to run the program using recursion with 50 disks, it was taking too long. When it reached about 15 minutes, I stopped the program.

4.

Since the graph is rising exponentially, I would assume that if the program was run using 100 or 1000 disks it would be like running a program that contains an infinite loop. It would seem to never end, and it would probably take years to finish.