

In testing the amount of time taken to run a binary search and a linear search on an array, my expectation of the results were that they would reflect the amount of comparisons necessary to search the array respectively. I decided to search for a value that wasn't in the array for a worst case analysis. As I began to run tests, I found that the resulting times varied slightly everytime and I chalked it up to background processes interfering with run time. Conclusively, I found that as I increased the size of the array the linear search times increased and binary search times stayed consistent.

	Linear	Binary
10	0.002	0.002
50	0.003	0.002
250	0.005	0.003
1250	0.022	0.003
3250	0.046	0.003
31250	0.448	0.003

Linear and Binary

