**Hypothesis**

While using a Windows Surface Pro 3 that has a i5 processor. Arrays sizes will be, 1000, 10000, 100000, 1000000. I believe that the results for the not found searches will lead by the internal Binary Search, then my Binary Search, and then coming in last place is the Linear Search. For the Found cases, I think that my Binary Search will come in first, then the internal and then my Linear Search.

**Result**

While using only my Surface to test all cases. During the not found cases, I was able to find that Linear search for every array size was way slower than the Internal Binary Search and my Binary Search. The Internal Binary Search was actually the second slowest for all array size test cases, and that makes sense because the internal Binary Search has a lot more overhead than my simple Binary Search. For the Found cases, my prediction was off. The Linear Search was actually the fastest of the three probably because there is a lot less overhead than the other two and it’s a simple search through the sorted array but my Binary Search was not far off, it almost seemed alternating with the Linear. My Binary Search beat the Internal Binary Search most likely because there is less overhead on my search compared to the Internal. All the test cases had some effect with the garbage collection and the CPU caching.