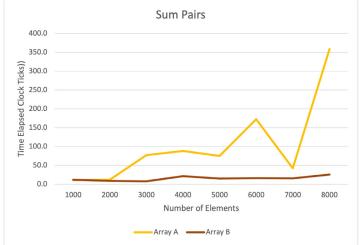
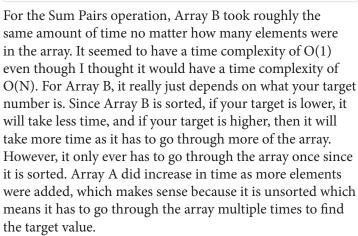
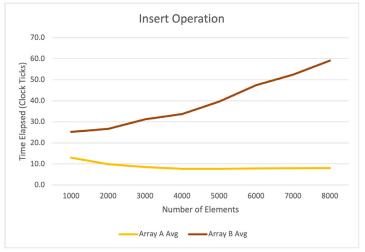




Across all variations of the number of elements, Array B was consistently the fastest. In addtion, as the number of elements increased, it seems as if Array B took less time, or at least had a consistent runtime, while Array A seemed to take longer. This makes sense though. Array A used a linear search algorithm to find the number that should be removed, while Array B used a Binary Search algorithm. Linear Search has a time complexity of O(N) which means it will increase Search has a time complexity of O(logN) which means the time won't increase a whole lot as elements are added.







The Insert operation had a consistent runtime for Array A. This makes sense though since we are adding the new value to the end of the array each time. There is no searching that has to be done, it just gets added at the end, so it will take the same amount of time every time - O(1). For Array B however, this was not the case. It had to search through the Array everytime to find where the new value should be placed, so as the number of elements increased, the runtime did as well. It traverses through the array until it finds the correct spot, so it has a time complexity of O(N).