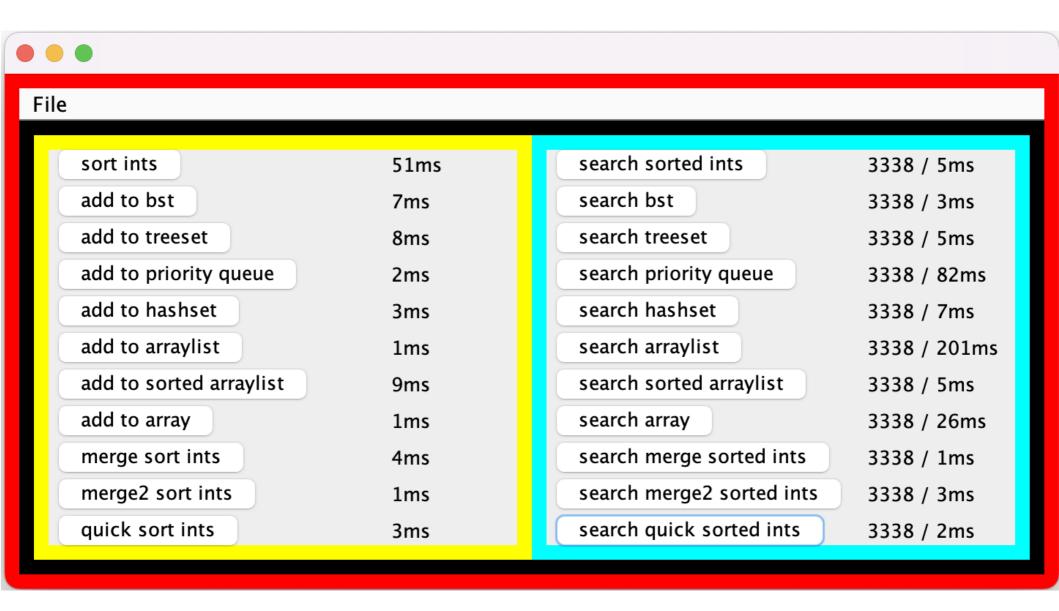
- The following slides show the expected results for the various test files that are posted for program 8
- The number of search values that are found need to match my values
- The time values should be similar
- I have three extra ones on my GUI
  - Merge sort (bottom up merge sort)
  - Merge2 sort (top down merge sort)
  - Quicksort
- The merge sort line is extra credit for 10 points to offset lost points from program 8 or any other programming assignment
- I will most likely test with the 100,000 value files, since the 250,000 files take a long time to run

## sort\_data\_1000.txt & search\_data\_1000.txt expected results

File								
	sort ints	5ms	search sorted ints 333 / 1ms					
	add to bst	9ms	search bst 333 / 0ms					
	add to treeset	3ms	search treeset 333 / 1ms					
	add to priority queue	1ms	search priority queue 333 / 7ms					
	add to hashset	0ms	search hashset 333 / 1ms					
	add to arraylist	0ms	search arraylist 333 / 4ms					
	add to sorted arraylist	1ms	search sorted arraylist 333 / 1ms					
	add to array	1ms	search array 333 / 5ms					
	merge sort ints	0ms	search merge sorted ints 333 / 0ms					
	merge2 sort ints	0ms	search merge2 sorted ints 333 / 1ms					
	quick sort ints	0ms	search quick sorted ints 333 / 0ms					
H								

## sort\_data\_10000.txt & search\_data\_10000.txt expected results



## sort\_data\_100000.txt & search\_data\_100000.txt expected results

File	2							
	sort ints	3628ms	search sorted ints	33281 / 22ms				
	add to bst	44ms	search bst	33281 / 26ms				
	add to treeset	56ms	search treeset	33281 / 29ms				
	add to priority queue	11ms	search priority queue	33281 / 5848ms				
	add to hashset	32ms	search hashset	33281 / 9ms				
	add to arraylist	6ms	search arraylist	33281 / 19323ms				
	add to sorted arraylist	49ms	search sorted arraylist	33281 / 33ms				
	add to array	2ms	search array	33281 / 1548ms				
	merge sort ints	20ms	search merge sorted ints	33281 / 20ms				
	merge2 sort ints	13ms	search merge2 sorted ints	33281 / 12ms				
	quick sort ints	31ms	search quick sorted ints	33281 / 12ms				

## sort\_data\_250000.txt & search\_data\_250000.txt expected results

File	File								
	sort ints	22201ms		search sorted ints	83197 / 45ms				
	add to bst	103ms		search bst	83197 / 72ms				
	add to treeset	127ms		search treeset	83197 / 84ms				
	add to priority queue	44ms		search priority queue	83197 / 36315ms				
	add to hashset	38ms		search hashset	83197 / 20ms				
	add to arraylist	7ms		search arraylist	83197 / 67624ms				
	add to sorted arraylist	118ms		search sorted arraylist	83197 / 74ms				
	add to array	3ms		search array	83197 / 8782ms				
	merge sort ints	43ms		search merge sorted ints	83197 / 46ms				
	merge2 sort ints	31ms		search merge2 sorted ints	83197 / 37ms				
	quick sort ints	50ms	(	search quick sorted ints	83197 / 35ms				