

Christopher Puglia  
HW 3b  
10/18/15

Type	Sort Time (sec)	Search Time (sec)	Total Time (sec)
Merge	.08	.03	.11
Insertion	116.69	.03	116.72
Quick Sort	.07	.03	.1
Heap Sort	.17	.04	.21
Hash Table	n/a (.06 write time)	.03	.09

The various sort and search methods were used to sort the wordlist and search all the possible words in the grid. The Hash Table was the fastest overall time due to the fact that there is no real sort needed for the Hash Table because of the hashing function. The good hashing function prevented large numbers of collisions and therefore made the lookup process efficient. Of the sorts that use the binary search the quick sort was the fastest due to the large overhead of the heap and the slower nature of the insertion and merge sorts.