

Package ... JUnit

- CorrelatorResults.java
- DataCount.java
- DataCounter.java
- DataCountStringC
- FileWordReader.java
- FourHeap.java
- GArrayStack.java
- GStack.java
- Hasher.java
- Hashtable.java
- MoveToFrontList.java
- PriorityQueue.java
- SimpleIterator.java
- StringComparator
- StringHasher.java
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- StringHasher3.java
- TestAVLTree.java
- TestBinarySearchT
- TestFourHeap.java
- TestGArrayStack.java
- TestHashtable.java
- TestMoveToFrontList
- TestSorting.java
- TestStringCompar
- WordCount.java
- WordCount2.java

JRE System Library [JavaSE

JUnit 4

Test

WordCount.java ADTSortingTimer.java StringHasher2.java StringHasher.java StringHasher3.java WordCount2.java

```
/* @author Chun-Wei Chen
 * @version CSE 332 02/19/13
 */
public class ADTSortingTimer {

    /**
     * @param args
     */
    public static void main(String[] args) {
        if (args.length != 1) {
            System.err.println("Invalid number of arguments");
            System.exit(1);
        } else {
            long startTime, endTime;

            startTime = System.currentTimeMillis();
            WordCount.main(new String[]{"-b", "-is", args[0]});
            endTime = System.currentTimeMillis();
            long bis = endTime - startTime;
        }
    }
}
```

Chun-Wei Chen  
CSE 332  
Project 2 - Write-Up Questions No.9  
ADT Sorting Timing  
Input file: Hamlet  
Verion 2 Hasher

@ Javadoc Declaration Console Debug

&lt;terminated&gt; ADTSortingTimer [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (Feb 19, 2013 6:38:03 AM)

Timing Results:

Time of BinarySearchTree + insertionSort:	1082 ms
Time of BinarySearchTree + heapSort:	307 ms
Time of BinarySearchTree + mergeSort:	186 ms
Time of AVLTree + insertionSort:	14750 ms
Time of AVLTree + heapSort:	10553 ms
Time of AVLTree + mergeSort:	13404 ms
Time of MoveToFrontlist + insertionSort:	982 ms
Time of MoveToFrontlist + heapSort:	1327 ms
Time of MoveToFrontlist + mergeSort:	1679 ms
Time of Hashtable + insertionSort:	1439 ms
Time of Hashtable + heapSort:	1022 ms
Time of Hashtable + mergeSort:	976 ms

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            long startTime, endTime;

            startTime = System.currentTimeMillis();
            WordCount.main(new String[]{"-b", "-is", args[0]});
            endTime=System.currentTimeMillis();
            long bis = endTime - startTime;
        }
    }
}
```

@ Javadoc Declaration Console Debug

&lt;terminated&gt; ADTSortingTimer [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (Feb 19, 2013 6:39:17 AM)

Timing Results:  
Time of BinarySearchTree + insertionSort: 1528 ms  
Time of BinarySearchTree + heapSort: 433 ms  
Time of BinarySearchTree + mergeSort: 264 ms  
Time of AVLTree + insertionSort: 16058 ms  
Time of AVLTree + heapSort: 10326 ms  
Time of AVLTree + mergeSort: 15033 ms  
Time of MoveToFrontlist + insertionSort: 1503 ms  
Time of MoveToFrontlist + heapSort: 1738 ms  
Time of MoveToFrontlist + mergeSort: 1661 ms  
Time of Hashtable + insertionSort: 1315 ms  
Time of Hashtable + heapSort: 1140 ms  
Time of Hashtable + mergeSort: 1036 ms



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            long startTime, endTime;

            startTime = System.currentTimeMillis();
            WordCount.main(new String[]{"-b", "-is", args[0]});
            endTime=System.currentTimeMillis();
            long bis = endTime - startTime;
        }
    }
}
```

@ Javadoc Declaration Console Debug

&lt;terminated&gt; ADTSortingTimer [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (Feb 19, 2013 6:41:25 AM)

Timing Results:

Time of BinarySearchTree + insertionSort:	1307 ms
Time of BinarySearchTree + heapSort:	314 ms
Time of BinarySearchTree + mergeSort:	261 ms
Time of AVLTree + insertionSort:	16369 ms
Time of AVLTree + heapSort:	11496 ms
Time of AVLTree + mergeSort:	15232 ms
Time of MoveToFrontlist + insertionSort:	1325 ms
Time of MoveToFrontlist + heapSort:	1705 ms
Time of MoveToFrontlist + mergeSort:	1742 ms
Time of Hashtable + insertionSort:	1263 ms
Time of Hashtable + heapSort:	1091 ms
Time of Hashtable + mergeSort:	970 ms