Test Assignment –

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| **Test Number** | **Test Case** | **Importance** | **Comments** |
| 1 | Check if the worker’s list is filled with the workers details after preforming the sort | High |  |
| 2 | Check if the new sorted list is matching the original list | High |  |
| 3 | Check if the worker’s list is sorted properly | High |  |

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| **Test Number** | **Description** | **Requirement** | **Test Purpose** | **Step/Process** | **Expected Result** | **Pass/Fail** | **Comments** |
| 1 | Check if the worker’s list is filled with the workers details after preforming the sort | Sort the worker’s list | Insure that the sort function do function properly | Make a new list of workers | A list will be created | Pass |  |
| Sort the new worker’s list | There will be no error message shown in the screen | Pass |
| Check if the list is not empty (not pointing to null) | The list is filled with workers details (not pointing to null) | Pass |
| 2 | Check if the new sorted list is matching the original list | Sort the worker’s list | Insure that there is no loss of data after the sort | Get the original list of workers (preformed with a function) | The original list of workers exist | Pass |  |
| Check if the lists match by going over every worker in the original list and checking if the new list contains this worker | The lists match (function returned true) | Pass |  |
| 3 | Check if the worker’s list is sorted properly | Sort the worker’s list | Insure that the sort function did sorted the list | Check if every worker’s salary in the list is lower than the next worker’s salary (by function) | The worker’s list is sorted by their salary (function returned true) | Pass |  |

Original bubble sort elapsed time: 594ms

Merge sort elapsed time: 15ms

Live sorting time is the console while running the program. The program creates two .txt files that contain the full list of workers before and after sorting.