Test Design

Scenarios Setup

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| **Name** | **Class** | **Scenario** |
| setup1 | SortAlgorithms | A sort algorithm object with the following array {3,4,7,1,8,9,5,2,6,10} |
| setup2 | SortAlgorithms | A sort algorithm object with the following array {1,2,3,4,5,6,7,8} |
| setup3 | SortAlgorithms | A sort algorithm object with the following array {10,9,8,7,6,5,4,3,2,1} |

**Test objective:**

To check if the bubbleSort method on the class SortAlgorithms works properly by using a setup filled with an array of numbers following one of these cases: (Unordered, ascending, descending)

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| **Class** | **Method** | **Scenario** | **Input values** | **Result** |
| SortAlgorithms | BubbleSortTest | setup1 | none | The array of numbers sorted: {1,2,3,4,5,6,7,8,9,10} |
| SortAlgorithms | BubbleSortTest | setup2 | none | The array of numbers sorted: {1,2,3,4,5,6,7,8} |
| SortAlgorithms | BubbleSortTest | setup3 | none | The array of numbers sorted: {1,2,3,4,5,6,7,8,9,10} |
| SortAlgorithms | BubbleSortTest | none | A range between -50 and 0 | The array of random numbers sorted |

**Test objective:**

To check if the mergeSort method on the class SortAlgorithms works properly by using a setup filled with an array of numbers following one of these cases: (Unordered, ascending, descending)

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| **Class** | **Method** | **Scenario** | **Input values** | **Result** |
| SortAlgorithms | MergeSortTest | setup1 | none | The array of numbers sorted: {1,2,3,4,5,6,7,8,9,10} |
| SortAlgorithms | MergeSortTest | setup2 | none | The array of numbers sorted: {1,2,3,4,5,6,7,8} |
| SortAlgorithms | MergeSortTest | setup3 | none | The array of numbers sorted: {1,2,3,4,5,6,7,8,9,10} |
| SortAlgorithms | MergeSortTest | none | A range between -50 and 0 | The array of random numbers sorted |