**EXSM 3936: JavaScript II - Recursion Assignment**

Deadline: SundayJun 12, 2022 at 11:59 PM

<https://classroom.github.com/a/9FcsHqYO>

Introduction

This assignment is intended to test your knowledge and skills learned over this module. Follow the instructions below to complete the task.

Instructions

To demonstrate your understanding of recursion, write a merge sort in JavaScript using recursion. If you do not know how a merge sort works, please first do some research on your own to understand the process. We understand that there is a plethora of solutions available for this assignment on the internet and we will be actively checking submissions for breaches of academic integrity. Your merge sort program should take an input of an array of any size and then return an array sorted from smallest to largest. If your solution is not adequately commented (or variables named semantically) to show understanding of what is happening, you will not receive credit for this assignment.

Criteria

| Requirement | Marks Available | Mark(s) Awarded | Comments |
| --- | --- | --- | --- |
| Sorting function is implemented with recursion. | 2 |  |  |
| Sorting function is a merge sort (2 marks for a merge sort, 1 mark for any other sort, 0 marks for using the built-in sort function). | 2 |  |  |
| Sorting function sorts an array of any size. | 1 |  |  |
| Deductions: |  |  |  |
| README.md file is not present in the docs directory, or does not contain a reasonable minimum amount of information. | -1 |  |  |
| Version control is not used appropriately (-1 for vague or nonsensical commit messages, up to -2 for insufficient commits, -3 for a single commit regardless of message). | -3 |  |  |
| Whitespace is not managed (tab stops / formatting). | -1 |  |  |
| Variable, class, constant, property and/or method names do not meet [the code style requirements](https://docs.google.com/document/d/12iEtYtYiKwRAjhLayI-JVNVqXkud3X_PtOE9D0sU9Cw/edit) (-0.5 each declaration). | -3 |  |  |
| Missing semicolons (-0.5 each). | -2 |  |  |
| Unhandled exception(s) generated (-1 each scenario that generates one). | -3 |  |  |
| Whitespace isn’t stripped from inputs. | -1 |  |  |

**Total: /5**