Test for I Can Sort

Acceptance Testing

Time: 2021/3/29

Tester: Dr. Heshan Du

You may write down “T” for True or “F” for False in the right column, with comments if you like.

Part 1. First open

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| When first open this software, whether it will open a dialog window to ask the user’s level. | T |
| In the dialog window, click the left button, whether it will jump to Tutorial module. | T |
| In the dialog window, click the right button, whether it will jump to Procedure module. | T |

Part 2. Modules

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| In all modules, click the Settings button, whether a settings window will pop up. | T |
| In all modules, whether the progress bars will show the progress of the corresponding parts correctly. | T |
| In all modules, whether the user's most recently accessed part’s button in the main page will be stroke (the edges will be outlined), to notify that this part is recently accessed. | T |
| In the Settings button, when click GITHUB ADDRESS: I-CAN-SORT button, it will open a new browser window to the software’s GitHub page. | T |
| In the Settings button, when click CONFIRM button, it will clear all history. | T |
| In all modules, click the Help button, whether a help window will pop up. | T |
| In Tutorial, click the Swap button, whether it goes to Swap page. | T |
| In Tutorial, click the Loop button, whether it goes to Loop page. | T |
| In Tutorial, click the Terminology button, whether it goes to Terminology page. | T |
| In Procedure, click the Bubble sort button, whether it goes to Bubble sort page. | T |
| In Procedure, click the Selection sort button, whether it goes to Selection sort page. | T |
| In Procedure, click the Insertion sort button, whether it goes to Insertion sort page. | T |
| In Procedure, click the Quick sort button, whether it goes to Quick sort page. | T |
| In Procedure, click the Merge sort button, whether it goes to Merge sort page. | T |
| In Procedure, click the Heap sort button, whether it goes to Heap sort page. | T |
| In Correctness, click the Tutorial button, whether it goes to Tutorial page. | T |
| In Correctness, click the Proof button, whether it goes to Proof page. | T |

Part 3. Pages

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| In all pages, click the home button, whether it goes to the upper level module correctly. | T |
| In Swap page, click the corresponding control buttons, whether the animation will act as it is told to do. | T |
| In Swap page, when the animation is playing, whether the code is highlighted correctly. | T |
| In Swap page, when the animation is playing, whether the values of variables show correctly. | T |
| In Loop page, when first get into this page, whether a dialog window pops up. | T |
| In Loop page, click the question marks, whether a dialog window pops up. | T |
| In Loop page, click the corresponding control buttons, whether the animation will act as it is told to do. | T |
| In Loop page, when the animation is playing, whether the code is highlighted correctly. | T |
| In Terminology page, when first get into this page, whether a dialog window pops up. | T |
| In Terminology page, when click left side catalogue buttons, whether it goes to corresponding catalogue page correctly. | T |
| In Terminology page, when click back and next buttons, whether the pages changes correctly. | T |
| In all subpages of Procedure, the Introduction part and the algorithm shows correctly. | T |
| In all subpages of Procedure, the shuffle button of Operation and Implementation part generates a random array correctly. | T |
| In all subpages of Procedure, the Export Quick Guide button exports a PDF file correctly. | T |
| In Tutorial page of Correctness, when click left side catalogue buttons, whether it goes to corresponding catalogue page correctly. | T |
| In all Tutorial pages of Correctness, when click back and next buttons, whether the pages changes correctly. | T |
| In Introduction page of Tutorial of Correctness module, when click the shuffle button, whether it will generate correct random inputs. | T |
| In Introduction page of Tutorial of Correctness module, when click the play button, whether it will put correct random inputs into the algorithm. | T |
| In Example page of Tutorial of Correctness module, when click any algorithm, it will run correctly. | T |

Part 4. Requirement Specifications (Please refer to the requirement checklist)

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| --- | --- |
| Whether all the core features are achieved | T |
| Whether all the additional features are achieved (if not all, please write down e.g. 9/15) | T |
| Any comments on requirement specifications (Please write down your comments) |  |

Part 5. Performance and Appearance

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| --- | --- |
| Whether the software is easy to install. | T |
| Whether the software runs smoothly without unexpected lag. | T |
| Whether the software’s layout and appearance are clear and satisfy your expectation. | T |
| Whether it is easy for you to understand the usage of every button or interaction components | T |

Part 6. Acceptance

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| --- | --- |
| Do you accept the software to be released? | T |
| Any comments and feedback on the software and Team 10 (Please write down your comments) | The software was developed successfully. A nice GUI was provide to enable good interactions with users. Executable files were generated to support different platforms. Good job! |