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Feature: Menu Processing

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| **Test #** | **Description** | **Input** | **Expected Output/Result** | **Actual Output** | **Status (Pass/Fail)** |
| T1 | Initialize the array with default size | Menu choice: 1 | Please select one of the following:  1: Initialize a default array  2: To specify the max size of the array  3: Add value to the array  4: Display values in the array  5: Display average of the values, minimum value, maximum value, max mod min, factorialMax  6: To Exit  > This is in the background [Array is initialized with default size] | Please select one of the following:  1: Initialize a default array  2: To specify the max size of the array  3: Add value to the array  4: Display values in the array  5: Display average of the values, minimum value, maximum value, max mod min, factorialMax  6: To Exit  > | [Pass/Fail] |
| T2 | Initialize the array with a specified size | Menu choice: 2, Max size: 11 | Please select one of the following:  1: Initialize a default array  2: To specify the max size of the array  3: Add value to the array  4: Display values in the array  5: Display average of the values, minimum value, maximum value, max mod min, factorialMax  6: To Exit  > [Array is initialized with a max size of 11] | [Please select one of the following:  1: Initialize a default array  2: To specify the max size of the array  3: Add value to the array  4: Display values in the array  5: Display average of the values, minimum value, maximum value, max mod min, factorialMax  6: To Exit  > | [Pass/Fail] |
| T3 | Add a value to the array | Menu choice: 3, Input value: 7.5 | Please select one of the following:  1: Initialize a default array  2: To specify the max size of the array  3: Add value to the array  4: Display values in the array  5: Display average of the values, minimum value, maximum value, max mod min, factorialMax  6: To Exit  >   [Value 7.5 is added to the array] | Please select one of the following:  1: Initialize a default array  2: To specify the max size of the array  3: Add value to the array  4: Display values in the array  5: Display average of the values, minimum value, maximum value, max mod min, factorialMax  6: To Exit  > | [Pass/Fail] |
| T4 | Display values in the array | Menu choice: 4 | Numbers are:  7.5  Please select one of the following:  1: Initialize a default array  2: To specify the max size of the array  3: Add value to the array  4: Display values in the array  5: Display average of the values, minimum value, maximum value, max mod min, factorialMax  6: To Exit  > | [Numbers are:  7.5  Please select one of the following:  1: Initialize a default array  2: To specify the max size of the array  3: Add value to the array  4: Display values in the array  5: Display average of the values, minimum value, maximum value, max mod min, factorialMax  6: To Exit  > | [Pass/Fail] |
| T5 | Calculate and display average, min, max, max mod min, and factorialMax | Menu choice: 5 | Average: 7.5 Minimum value is: Minimum value is 7.50 Maximum value is: Maximum value is 7.50 Max mod Min: Max mod Min is 0.00 Factorial of Max is 5040  Please select one of the following:  1: Initialize a default array  2: To specify the max size of the array  3: Add value to the array  4: Display values in the array  5: Display average of the values, minimum value, maximum value, max mod min, factorialMax  6: To Exit  > |  | [Pass/Fail]:  Pass |
| T6 | Exit the program | Menu choice: 6 | Exiting program. | [Exiting program. | [Pass/Fail] |