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| Test Case | Result: | Reason: |
| Character based input (non integral) lastzero *a b c d* | Display to user invalid input entered arguments *a b c d* are invalid | Invalid input data |
| Floating input (non integral) *lastzero 15.2 22.1 24.3 0* | Default the value of the arguments to 1 *arguments 15.2 22.1 24.3 0 are invalid using default values of 1* | Invalid input data |
| No arguments entered | Display message to user asking for command line arguments. | Data input is required for the program |
| Too many arguments are entered | Display message to user asking for less arguments to be entered. | Limit the amount of data so the array size does not overflow. INTEGER.MAX\_VALUE (2147483647) |
| Correct usage with one zero. *lastzero 0* | Display the index value of where the last zero occurs. *Last zero occurs at index 0* | Demonstrate correct usage case of the running program. |
| Correct usage with multiple inputs. *lastzero 1 0 2 3 4* | Display the index value of where the last zero occurs. *Last zero occurs at index 1* | Demonstrate correct usage case of the running program. |
| Correct usage with multiple zeros. *lastzero 1 0 2 3 4 0* | Display the index value of where the last zero occurs. *Last zero occurs at index 5* | Demonstrate correct usage case of the running program. |
| Correct usage with no zeros. *lastzero 1 1 2 3 4 1* | Alert that there is no zero. *No zero detected in input* *Last zero occurs at index -1* | Demonstrate correct usage case of the running program. |

Test Cases: