1. No
2. Test Cases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test case | lowest | highest | counter | average |
| 1, 6, 4.3, 7, -4 | 1 | 7 | 4 | 4.575 |
| 12, 3, 6.2, 77, -3,5 | 3 | 77 | 4 | 24.55 |
| 4, 66, 72.3, 5.2, -6, 8 | 4 | 72.3 | 5 | 31.1 |

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\* Assignment #7

\* Working with numbers provided by the user to generate stats

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\* @ver: 0.1

\*/

#include <stdio.h>

#include <stdlib.h>

main() {

int counter = 0;

double highest = 0.0;

double lowest = 0.0;

double sum = 0.0;

double input;

double average;

printf("Hello there!\n");

printf("Please input some numbers when prompted (must be greater than zero).\n");

printf("To finish, type in -1.\n");

scanf\_s("%lf", &input);

//if input != -1, run loops

while (input != -1.0) {

//if input <= 0, ask for input again

while (input <= 0.0 && input != -1.0) {

printf("Sorry, your input must be greater than zero. Try again.\n");

scanf\_s("%lf", &input);

}

//if input > 0, run stats and ask for input again

while (input > 0.0) {

counter++;

//setting the comparison table

if (counter == 1) {

highest = input;

lowest = input;

}

//compare for lowest value

if (input < lowest) {

lowest = input;

}

//compare for highest value

if (input > highest) {

highest = input;

}

//add inputs

sum += input;

scanf\_s("%lf", &input);

}

}

printf("Lowest Number: %lf\n", lowest);

printf("Highest Number: %lf\n", highest);

printf("Numbers submitted: %i\n", counter);

printf("Average of all numbers: %lf\n", (sum / (double)counter));

system("pause");

}

Screenshots

Case #1

Text

Description automatically generated

Case #2

Text

Description automatically generated

Case #3

Text

Description automatically generated