

Fitchburg State University
CSC 7014 Practice Computer Programming
Instructor: Nguyen Thai
Due: 11/11/2017 at 11:00 PM
Student: Lina Mi

Assignment 8: Median

The purpose of this assignment is to learn how to program using list. Your program is to be written in the Python language. You will be graded for output correctness, code comments, code indentation, descriptive variables and source code file header completeness.

As you work through the assignment be sure to answer all questions (type your answers into this document) and take all screenshots as requested (copy them into the document). For the screenshots, you can use the Snipping Tool that is built-in to Windows to capture the important parts of the lab as highlighted in the document below. **Do not delete the contents of this file.** When finished you will submit the document source code file and associated data files to the instructor via Blackboard. **DO NOT SUBMIT ZIP FILES OR INDIVIDUAL IMAGES.** If you have any questions or need any clarification, email the instructor *before* the deadline.

1. In this assignment, you are to write a program in Python called *median.py* to help students practice median.
2. Write a program to generate five (5) two-digit random numbers. Verify all numbers are unique, no duplications. Store the integers in a list.
3. Ask the student to find the median of the generated numbers. Note that the median is the middle number of a sorted list.
4. Here is a sample test case:

What is the median of these numbers: 53, 20, 15, 45 and 90: 20

Your answer is not correct. Do you want to try again? (Y/N): Y

What is the median of these numbers: 53, 20, 15, 45 and 90: 90

Your answer is not correct. Do you want to see the answer? (Y/N): N

What is the median of these numbers: 53, 20, 15, 45 and 90: 20

Your answer is not correct. Do you want to see the answer? (Y/N): Y

The correct answer is 45. Do you want to play again? (Y/N): Y

What is the median of these numbers: 63, 22, 15, 35 and 83: 35
Your answer is correct. Do you want to play again? (Y/N): N

5. **TAKE A SCREENSHOT** of your input and output, and paste them here. **Do not paste your source code in this document.**

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>>>
RESTART: C:/Users/milin/Registered_Courses_2017_Summer&Fall/Registered_Courses_2017_Fall/Pr
actice of Computer Program/median.py
What is the median of these numbers: 15 , 45 , 60 , 82 and 97 :45
Your answer is not correct. Do you want to try again?(Y/N):Y
What is the median of these numbers: 15 , 45 , 60 , 82 and 97 :82
Your answer is not correct. Do you want to see answer?(Y/N):Y
The correct answer is: 60 Do you want to play again?(Y/N):Y
What is the median of these numbers: 32 , 44 , 93 , 94 and 99 :44
Your answer is not correct. Do you want to try again?(Y/N):Y
What is the median of these numbers: 32 , 44 , 93 , 94 and 99 :99
Your answer is not correct. Do you want to see answer?(Y/N):N
Do you want to play again?(Y/N):Y
What is the median of these numbers: 22 , 47 , 59 , 75 and 77 :22
Your answer is not correct. Do you want to try again?(Y/N):Y
What is the median of these numbers: 22 , 47 , 59 , 75 and 77 :59
Your answer is correct. Do you want to play again?(Y/N):Y
What is the median of these numbers: 22 , 23 , 24 , 33 and 83 :22
Your answer is not correct. Do you want to try again?(Y/N):N
Do you want to see the answer?(Y/N):Y
the correct answer is: 24 Do you want to play again?(Y/N):Y
What is the median of these numbers: 12 , 38 , 39 , 60 and 82 :60
Your answer is not correct. Do you want to try again?(Y/N):N
Do you want to see the answer?(Y/N):N
Do you want to play again?(Y/N):Y
What is the median of these numbers: 65 , 67 , 80 , 85 and 99 :80
Your answer is correct. Do you want to play again?(Y/N):Y
What is the median of these numbers: 26 , 27 , 47 , 57 and 82 :47
Your answer is correct. Do you want to play again?(Y/N):N
>>> |
```

Ans:

Ln: 549 Col

6. Submit your source code and this document to Blackboard for grading.