CSC1310: LAB 4

CONCEPTS

- Standard Template Library
- Vector ADT

DESCRIPTION

Moon Pies

Jane steals moon pies from her brother on a regular basis. Write a program that will keep statistics on her moon pie stealing habit.

SPECIFICATIONS

Write a program named **moonpie.cpp**. All your code will be in this one file.

- Create a vector named moonPieArray.
- Ask how many days Jane stole moon pies.
- Create a function called **enterStolenMoonPies** and call this function from your main function. You will send the vector & number of days to this function. You will populate the vector by asking the user how many moon pies Jane stole on each day. **NOTE: Are Vector ADTs passed by VALUE or REFERENCE?**
- Then, create a function called **totalMoonPies** and call this function from your main function. You will send the vector & number of days to this function. In this function, you will figure out how many moon pies in total has been stolen by Jane – then return this value back to main.

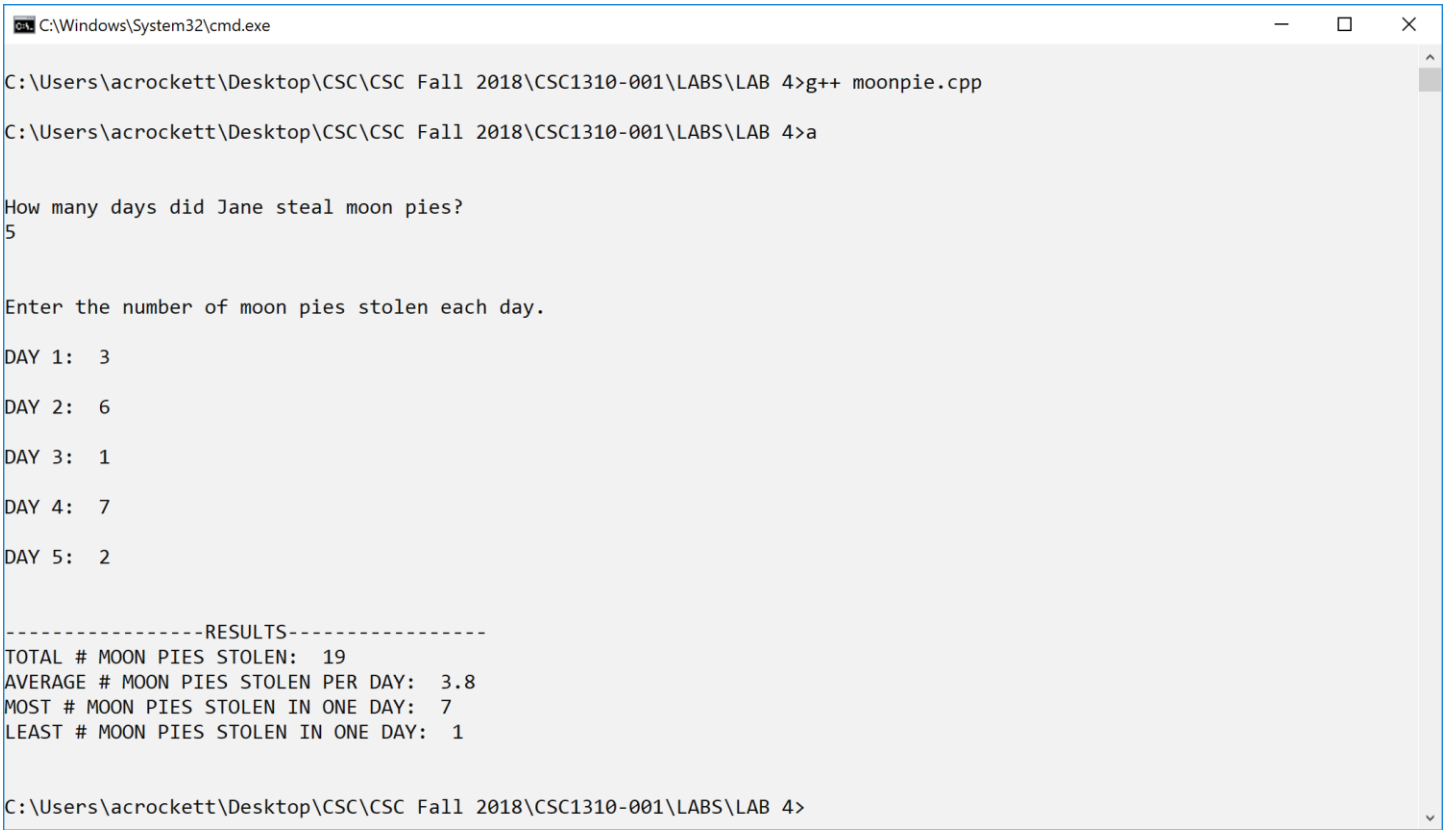
- Then, create a function called **averageMoonPies** and call this function rom your main function. You will send the number of days, and the total # moon pies stolen to this function. In this function, you will figure out the average number of moon pies that were stolen per day – then return this value back to main.

- Then, create a function called **highestMoonPies** and call this function from your main function. You will send the vector & number of days to this function. In this function, you will figure out the most moon pies Jane stole in a single day and then return this value back to main.

- Then, create a function called **lowestMoonPies** and call this function from your main function. You will send the vector & number of days to this function. In the function, you will figure out the least number of moon pies Jane stole in a single day and then return this value back to main.

- Last, print out the total, average, highest & lowest in an easy-to-read way in the main function. Refer to sample output for formatting.

SAMPLE OUTPUT



WHAT TO TURN IN

Zip all the following files and upload to ilearn.

- moonpie.cpp
- RUN
- Makefile
- TEST_CASE.txt