CS 150 Lecture 4 Exercises

Complete each of the exercises below and upload to Canvas before the deadline..

Exercise 1 - The lastDigit Function

Follow along in class to complete the ***lastDigit()*** function that returns the last digit of an integer. For example, ***lastDigit(3572)*** should return ***2***. It should work for negative numbers as well. For example, ***lastDigit(-947)*** should return ***7***. You may use the ***abs()*** function in ***<cstdlib>*** but no other library functions. You may not use string.

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Exercise 2 - Simple Selection - the doubleSum Function

Write a function which, given two **int** arguments, returns the sum, unless the two values are the same, in which case, return double the sum.

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Exercise 3 - Sequential Selection and Logical Operators

Write the function names **season()**. Given two integers as arguments representing a month and day return the season for that month and day. Assume that months are specified as an integer between **1** and **12** (**1** for January, **2** for February, and so on) and that the day of the month is a number between **1** and **31**.

If the date falls between **12/16** and **3/15**, return **"Winter"**. If the date falls between **3/16** and **6/15**, return **"Spring"**. If the date falls between **6/16** and **9/15**, return **"Summer"**. And if the date falls between **9/16** and **12/15**, return **"Fall"**.

If a date is invalid, return **"Invalid"**. (For instance, a month of **13** or **-1** or a day **<** **1** or **>** **31**. You do not have to validate each date or check for leap years.)

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