Lecture 15: Introduction to Computer Programming Course - CS1010

03/14/2019

DEPARTMENT OF COMPUTER SCIENCE

Rensselaer

Announcements

- Exam 2 is scheduled for Thursday (March 21)
- We will review the exam on Monday (March 18)
- Rainbow Grades in Submitty:
 - Do not worry about the %age shown
 - Just look at Exam 1 Row

Goals for today

- For Loops
- Problems on For Loops
- In-Class exercise

Problem 1a

• Given a string and a substring, return true if substring is in the string.

Problem 1b

- Given a list of characters and a string. Return the number of characters that are there in the string.
- l1=['a','b','c','d','r']
- s1='c1tdoorrbin'
- Result: 4

• Write a program that returns a list of even numbers up to a given integer n.

 Write a Python program that accepts a word from the user and reverse it using for loop.

• Write a function that takes input as a string and a substring. Return the number of times the substring is found in the string.

• Given an array of integers, return True if the array contains a 2 next to a 2 somewhere.

```
    has22([1, 2, 2]) → True
    has22([1, 2, 1, 2]) → False
    has22([2, 1, 2]) → False
```

• Given two strings, return True if either of the strings appears at the very end of the other string, ignoring upper/lower case differences (in other words, the computation should not be "case sensitive"). Note: s.lower() returns the lowercase version of a string.

• Test cases:

```
end_other('Hiabc', 'abc') → True
end_other('AbC', 'HiaBc') → True
end_other('abc', 'abXabc') → True
```

 Write a Python program which iterates the integers from 1 to 50. For multiples of three print "Fizz" instead of the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz".

• Write a Python program that accepts a string and calculate the number of digits and letters.

In Class Exercise

• Given in class

Next Class

Error and exception handling