

15-110 recitation 04

Recap:

- String slicing, string operations
- For loops
- While loops

Reminders!

HW-2 due Monday @ Noon; Grace Day Tuesday @ Noon

Exam 1 is NEXT Friday (9/27)

Review Sessions:

Sunday 5:30-7pm NSH 3305

Tuesday 8-9:30pm NSH 3002

Problems

hasAnyVowels

Learning Objective

-write a function with a for loop

Problem

Write a function `hasAnyVowels` that returns `True` if any of the letters in the string are vowels

`hasAnyVowels("uioade")->True`

`hasAnyVowels("aeo")->True`

`hasAnyVowels("syzygy")->False`

hasIncreasingDigits

Learning Objective

-practice writing functions with while loops and using math operations

Problem

Write a method that returns whether a number has all increasing digits.

`hasIncreasingDigits(1234) -> True`

`hasIncreasingDigits(77)-> False`

`hasIncreasingDigits(56734)->False`

code trace

Problem	<pre>def f(n, bits): maxValue = 2**bits - 1 if (n > maxValue): return 'Not enough bits!' result = '' for k in range(bits-1, -1, -1): kthBit = n // 2**k % 2 result = result + str(kthBit) return result print(f(0,4)) print(f(16, 4)) print(f(3,4)) print(f(6,4)) print(f(15,4))</pre>
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