CompSci 6 Introduction to Computer Science

November 8, 2011

Prof. Rodger

More on sort

- Import operator
 - fruit = [("pear",5),("apple",9)]
 - fruit = sorted(fruit)
 - fruit.sort() OR fruit = sorted(fruit)
 - arguments
 - key=itemgetter(0)
 - reverse=True

Announcements

- No reading or RQ
- Assignment 5 due Thursday
- New APT out Thursday one APT
- Practice Test problems out will go over on Tues. Nov 15
- Prof. Rodger no office hours this week
- Today
 - Finish example from last time
 - More on sort options
 - Regular Expressions

Regular Expressions

- Part of the compiler process
 - Can write a regular expression for each type of word in a programming language
 - Example
 - Key words if, else, elif, while
 - Integers 456, 78, 2, -56
 - Float 3.14, 7856.2345
 - String 'word', "this is a phrase"
 - Special symbols [] + %

Regular Expressions

- a- a
- a* a repeated 0 or more times
- a+ a repeated 1 or more times
- a? a 0 or 1 time, so a is optional
- ^ match at the beginning of the string
- \$ match at the end of the string
- . matches anything
- [abc] match a, b, or c
- [a-z] match any character from a to z
- [^a] match any character but a

Regular expressions with re

- import re
- re.sub() substitute
- re.compile() create a pattern
- re.findall()
- See examples

More on regular expressions

- | or
- \b word boundary
- \s whitespace character
- $\d-$ match any digit
- When using backslashes must use r in front of string