CompSci 101
Introduction to Computer Science

January 22, 2015

Prof. Rodger
Announcements

• Reading, RQ 05 for next time
• Assignment 2 due Tues
• APT 1 is due today, APT 2 out
REMINDER
DO NOT SIT IN THE LAST TWO ROWS!

Come forward and sit beside someone you haven’t met
How many ways can I run Python in this course?

• Eclipse
  – Complete program
  – Console
  – APT

• Online textbook
  – Beware Python 3 (‘/’ (2.7) vs ‘//’ (3))

• Python Tutor
How to get Help in this class

• Piazza
• Consulting hours (Sunday-Thursday nights)
• Office hours (Prof, Tas)
• What happens if my laptop breaks and I can’t use my eclipse? Do I stop programming?
  – Clusters, Python Tutor, websubmit, borrow
• What happens if you send Prof. Rodger an email?
  • 35 support people vs. 1 person, may take awhile to answer
Submitting an APT or Assignment

• Use Ambient – submit
  – Submit History – files submitted should be listed!
  – Alternative – use web submit
  – Tuesday midnight means Tuesday 11:59pm + 1 minute
  – If you can’t submit on your computer, copy your file to another computer (Link?) and submit with websubmit on that computer
Why is this person so important to this course?

• Have you donated yet?
Top 10 list for surviving in CompSci 101

10. Ask questions
9. Eat lots of pizza
8. Learn how to spell Rodger
7. Read the book
6. Do the reading quizzes
Top 10 list (cont)

5. Check Piazza every day
4. Visit your prof in her office
3. Learn how to debug your programs
2. Seek help (one hour rule!)
1. Start programming assignments early
Algorithm

- Describe in words how to solve a problem
- Like a recipe, must be detailed and precise
Whole Genome Shotgun with words

• Creation algorithm
  – Take a phrase
  – Replicate it four times
  – Chop into "chunks"
    • 15-22 characters

• Figure out the original phrase

• Describe the algorithm to recreate original phrase?

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Review Functions


def duplicate(word, num):
    return word * num

def duplicate2(word, num):
    print word * num

def duplicate3(word, num):
    word * num

1. print duplicate ("Go", 3)
2. print duplicate2("Go", 5)
3. print duplicate3("Go", 2)
4. duplicate("Go", 5)
5. duplicate2("Go", 4)
6. duplicate3("Go", 2)
Use Python Tutor

• Debug/trace your code
• Doesn’t work with input files
Assignment 2

- How to start?
- Where does import go?
- Student work?
Solve an APT - Pancakes

bit.ly/101S15-0122-03