

## Announcements

- Program 6 has been assigned
- Due on Tuesday, October $29^{\text {th }}$ by $11: 55 \mathrm{pm}$


## Practice From Last Time

Open your randomNums.txt file that you created last time and read in each number.

1. Output the sum and average of the numbers in your file.
2. Calculate the consecutive differences between numbers in the file.
3. Challenge: edit your program to print out the smallest and largest values in the file.

- If you need a randomNums.txt file, I put mine in my Box.com directory.
- Remember that the randomNums.txt file and your Python file need to reside in the same folder!
- Problem that re-occurs often in CS:
- Finding the largest item in a set of things where you can only look at each thing once.
- Pseudocode for finding the largest number in a collection of numbers:
- largest = [smallest possible number that you could ever see]
- look at each number once: if the current number > largest, then
largest = current number
- after this loop, largest will have the largest number in it!


## Split function

Splits a string into multiple string variables based on a separator:


## Reading multiple strings per line

```
file = open("filename.txt", "r")
for line in file:
    line = line.rstrip()
    var1, var2, ... = var.split("sep")
    # do something with var1, var2, etc.
        with
        Should say line.split("sep")
```


## Class Practice

- Use the dogs.txt file in my Box.com directory
- Write a program to print the year the oldest dog was born, and the year the youngest dog was born.
- Edit your program to print the name of the oldest and youngest dog.

[^0]In-Class Lab


[^0]:    $\square$ dogs.txt - Notepad
    File Edit Format View Help Niko, 2007
    May, 2007
    Gigi,2006
    Mambo, 2015
    Lucy, 2010
    Tommy, 2011

