COMP 141

File Reading, split function



Announcements

• Program 6 has been assigned - Due on Tuesday, March 27th by 11:55pm

Practice From Last Time

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

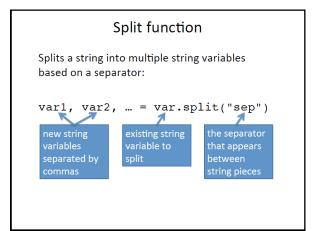
- 1. Output the sum and average of the numbers in your file.
- 2. Calculate the consecutive differences between numbers in the file.
- 3. Challenge: edit your program to print out the smallest and largest values in the file.
 - If you need a randomNums.txt file, I put mine in my Box.com directory.
 - 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!



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.
```

In-Class Lab