Computer Science I

CMPE/CSCI 1370 - 01

Today

Time	Topic
9:30 - 9:45	Exam answers
9:45 - 10:15	File I/O recipe
10:15 - 10:30	In-class exercises

Exam answers

File I/O

`cipher`

What we will discuss

- Basic file I/O recipe

What we *wont* discuss (in very much detail)

(We'll come back to these soon!)

- local variables and mutation

- classes, constructors, and instance methods

- while loops

Basic file output recipe:

1. Open a file

2. Write to the file using `<<`

3. Close the file

Basic file input recipe:

1. Open a file

2. Loop through each character in the file and do something with the character

3. Close the file

Basic file output recipe:

1. Open a file stream

2. Write to the file using `<<`

3. Close the file stream

Streams

Represents some media of sequential information (text on the console, files, video on the internet)

(In the case of file streams) We can:

- insert characters in sequence, or
- extract characters in sequence

Basic file input recipe:

1. Open a file stream

2. Loop through each character in the file and do something with the character

3. Close the file stream

`while` loop

1. evaluates the conditional expression

- if true, goes to 2

- if false, exit the loop and performs the next line after the closing brace

2. evaluates the body of the loop

3. back to 1

File output:

What if the file does not exist?

Which types of data can we write to a file?

How do we move to the next line when writing to a file?

File input:

What if the file does not exist?

What if the file is empty?

Attendance!

http://bit.ly/1370-1rollcall