

Outline for December 8, 2020

Reading: *none*

Assignments: Homework 4, due December 8, 2020
Project, due December 18, 2020

1. Thinking recursively [*recfun.py*]
 - (a) First: think of the problem in terms of something involving a smaller instance of the problem (*recursive case*)
 - (b) Next: decide when to stop (*base case*)
 - (c) Example: Find the length of a string
 - (d) Example: Find the maximum element of a list
 - (e) Example: Construct a string from a list of strings
 - (f) Example: Reverse a string
2. Recursion
 - (a) Palindromes [*palindrome.py*]
 - (b) Fibonacci numbers [*rfb.py*]
 - (c) Sum of digits [*sumdigits.py*]
 - (d) Nested lists: is an item in a list? [*isinlist.py*]