

CSCA08 Exercise 6

Due: November 5, 2017. 5:00pm
Pre-Run: November 3, 2017. 5:00pm

This week, we're working with mutability and the memory model. You will be writing two functions that do **almost** the same thing, but deal with input/output in very different ways. As always your code and testing files should be written in files named `ex6.py` and `ex6.test`, and you should not be using any `print/input/import` statements.

Changing a Copy of a List

Write a function called `copy_me` that takes as input a list, and returns a copy of the list with the following changes:

- Strings have all their letters converted to upper-case
- Integers and floats have their value increased by 1
- booleans are negated (False becomes True, True becomes False)
- Lists are replaced with the word "List"

The function should leave the original input list unchanged (i.e., do not mutate the list)

Mutating a List

Write a function called `mutate_me` that takes as input a list, returns None, and changes the input list in the following ways:

- Strings have all their letters converted to upper-case
- Integers and floats have their value increased by 1
- booleans are negated (False becomes True, True becomes False)
- Lists are replaced with the word "List"

So we're performing the same task, but this time we're changing the list itself instead of making a copy to return.