2019/6/29 Lists: basic

Lists: basic-level questions

If you need help reviewing Lists, take a look at these resources:

Albert's and Robert's slides
 (https://docs.google.com/presentation/d/1skXespdgvJRzwUmW1oSxHP54_bKkJPGkF1-N9poNRt4/edit#slide=id.p)

Each question has a "Toggle Solution" button -- click it to reveal that question's solution.

What would Python print?

Question 1

Toggle Solution

Question 2

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Question 3

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Code-Writing questions

Question 4

Implement a function reverse that takes a list as an argument and reverses the list. You should mutate the original list, without creating any new lists. Do NOT return anything.

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```
def reverse(L):
    """Reverses L in place (i.e. doesn't create new lists).

>>> L = [1, 2, 3, 4]
>>> reverse(L)
>>> L
    [4, 3, 2, 1]
    """
    "*** YOUR CODE HERE ***"
```

Toggle Solution

Question 5

Implement a function map_mut that takes a list as an argument and maps a function f onto each element of the list. You should mutate the original lists, without creating any new lists. Do NOT return anything.

```
def map_mut(f, L):
    """Mutatively maps f onto each element in L.

>>> L = [1, 2, 3, 4]
    >>> map_mut(lambda x: x**2, L)
    >>> L
    [1, 4, 9, 16]
    """
    "*** YOUR CODE HERE ***"
```

Toggle Solution