Lecture 7

Homework #7 (due March 20, 2019)

Data types:

Primitive (“atoms”)

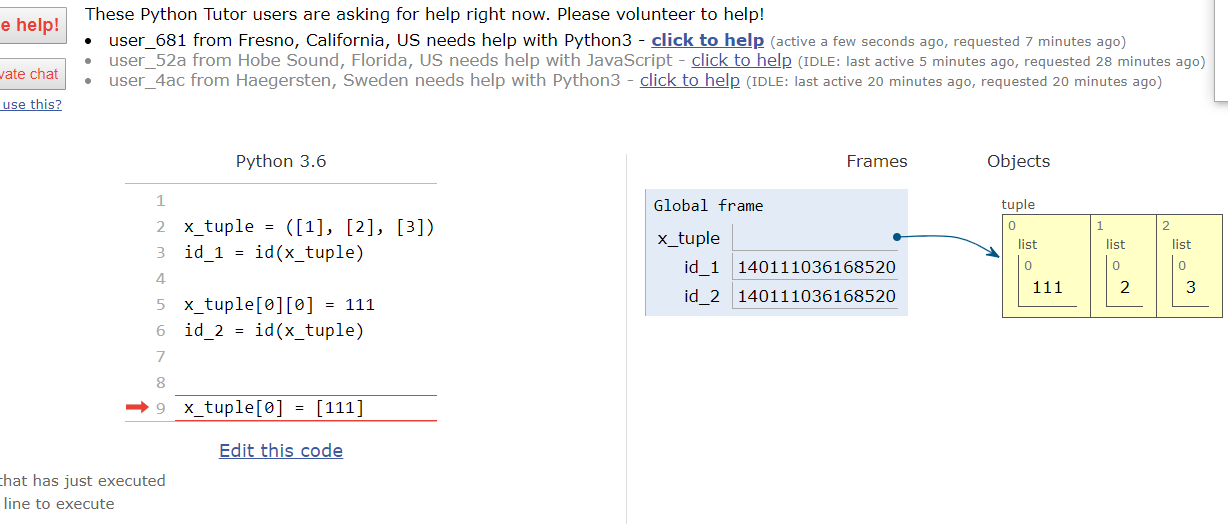
Collections (“molecules”)

Strings, lists, tuples, sets, dictionaries

Membership, iteration, slicing

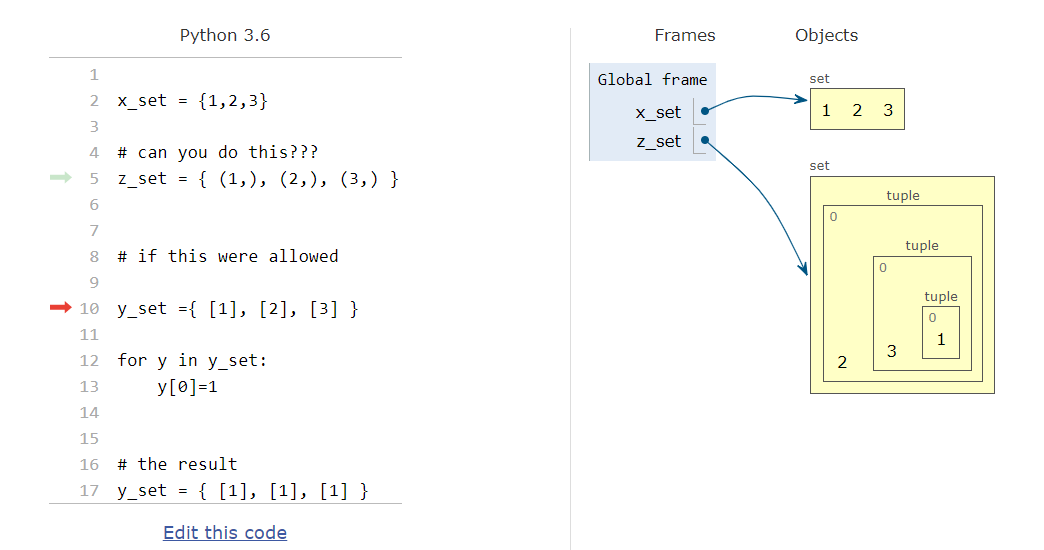
Lists are mutable

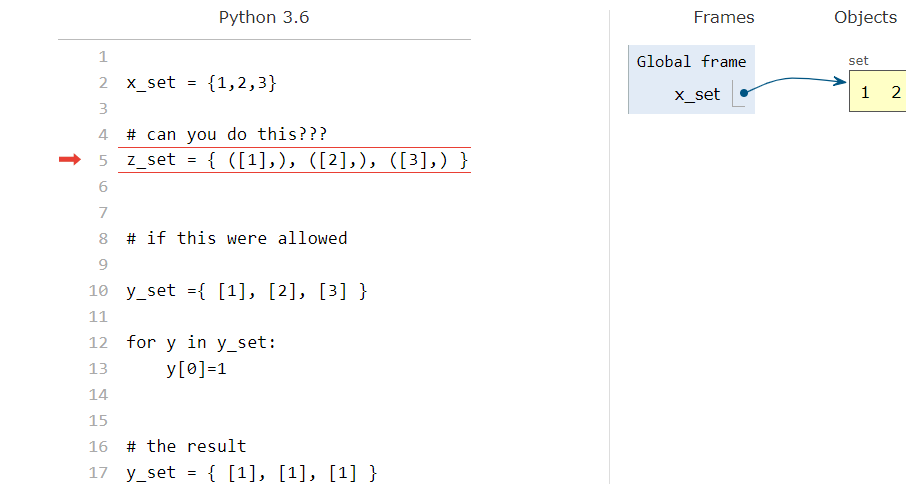
Tuples are immutable (but you can “mutate” mutable elements within a tuple



Sets - mutable, immutable







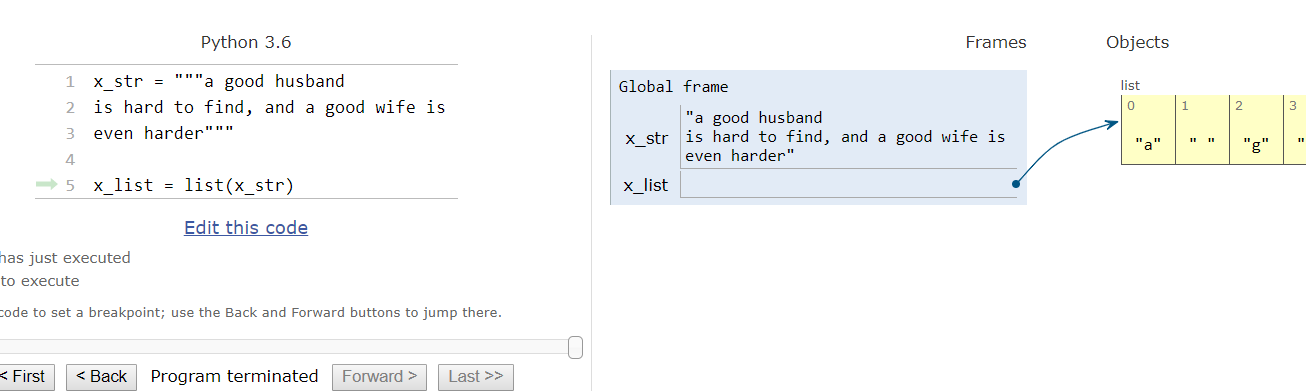
Dictionary

(keys, values):

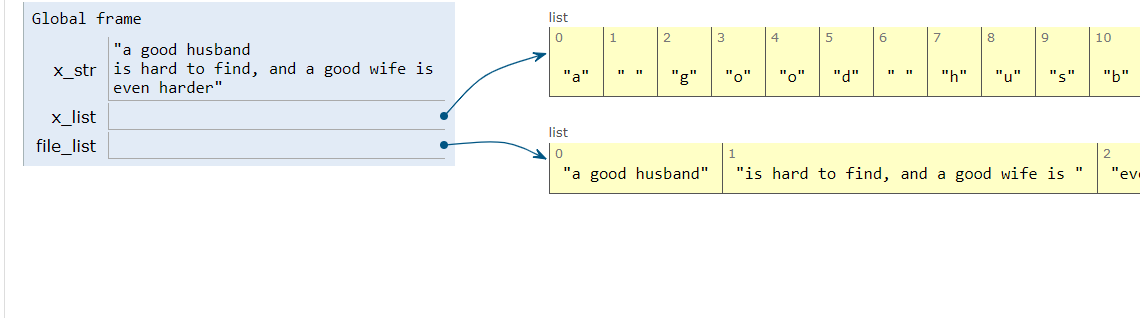
Vi editor

In the next 2 assignments, you will consider 3 implementations for the editor

1. A file is a sequence of bytes



1. A file is a list of lines



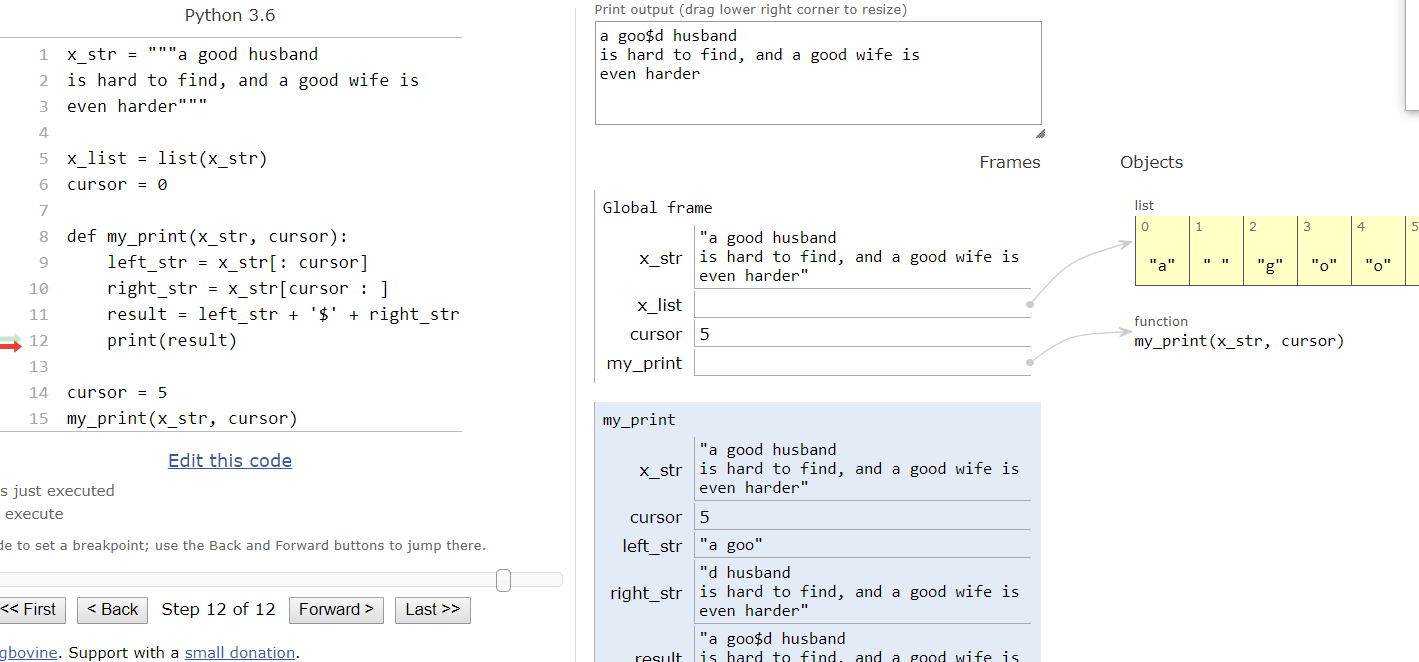
1. A file is a linked list

String representation:

X\_str : data itself

Cursor: displacement from the start of the string

We will show the results of our commands to calling my\_print()



Some examples:

1 goto start of file

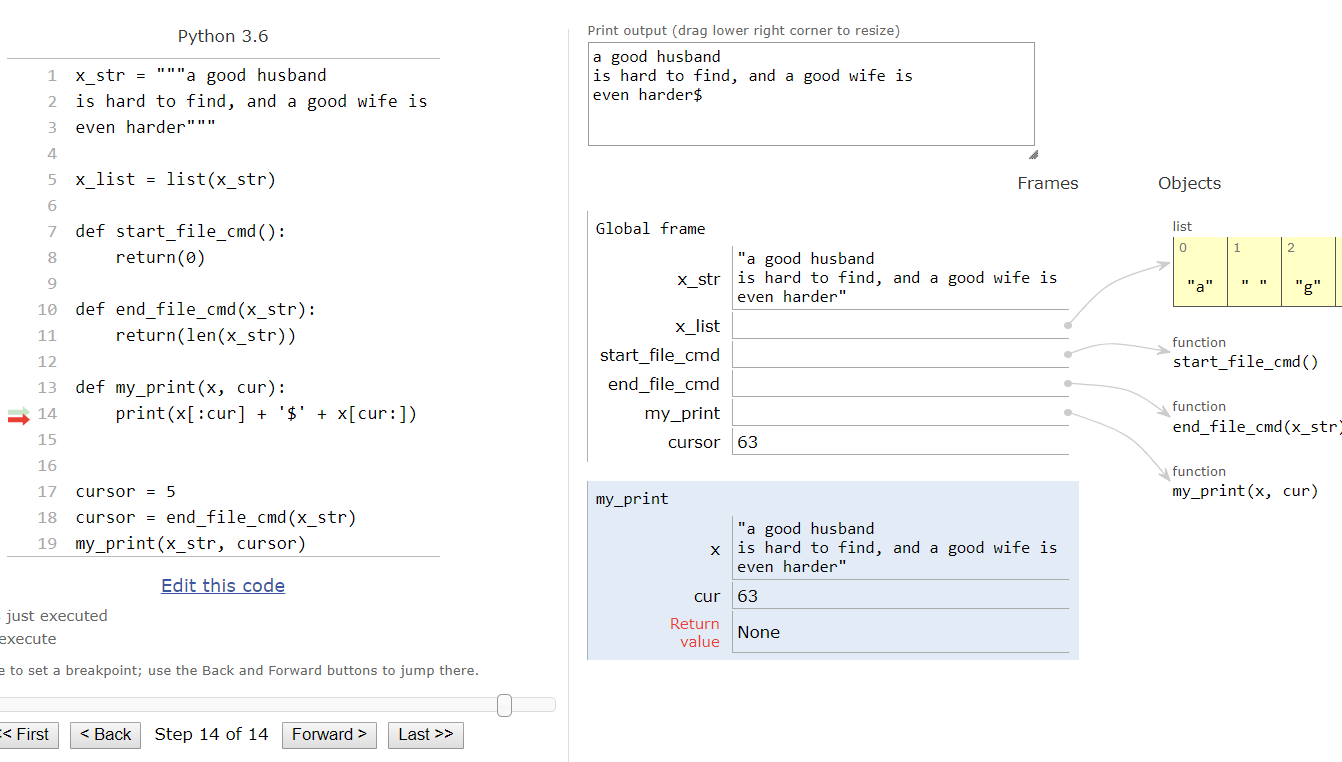
2 goto end file

def start\_file\_cmd():

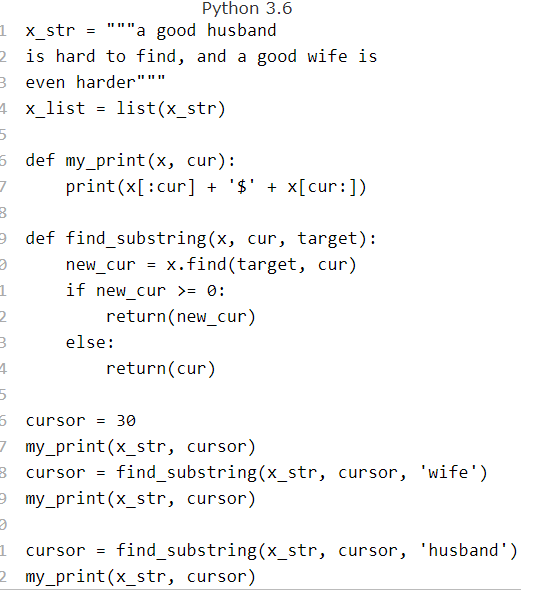
return(0)

def end\_file\_cmd(x\_str):

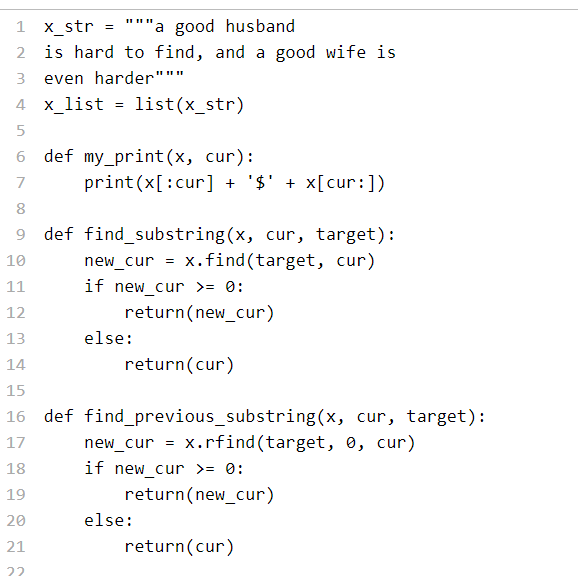
return(len(x\_str))



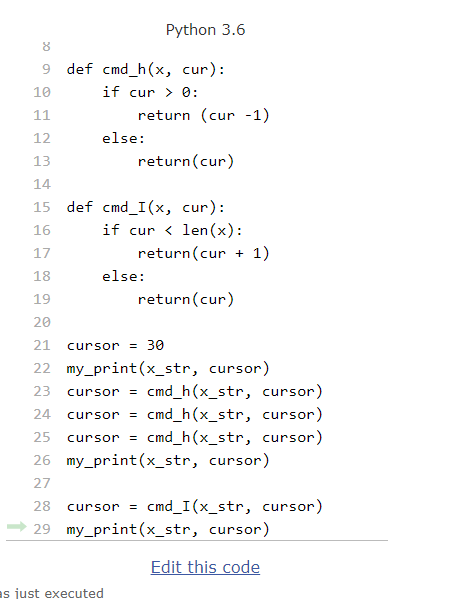
Find a substring



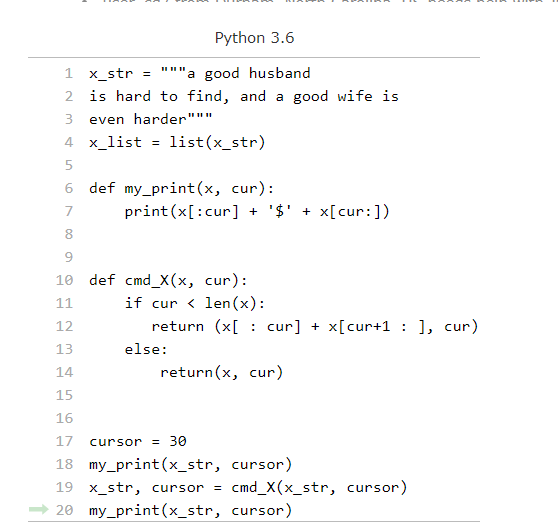
Reverse find:



Move to the right and to the left by one position



Delete at the current position



Second part: your file is a list of lines

