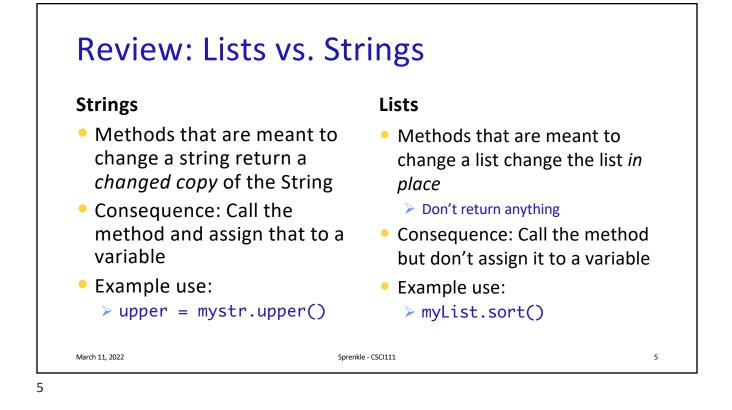
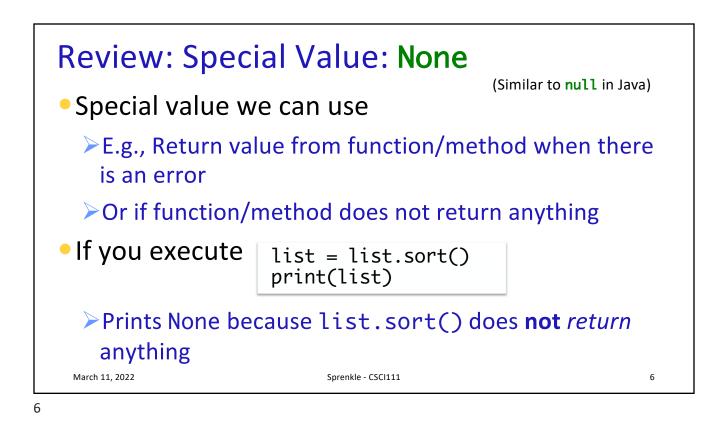
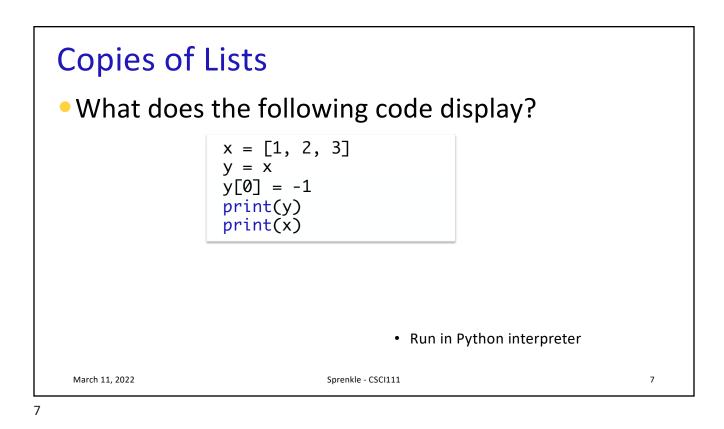


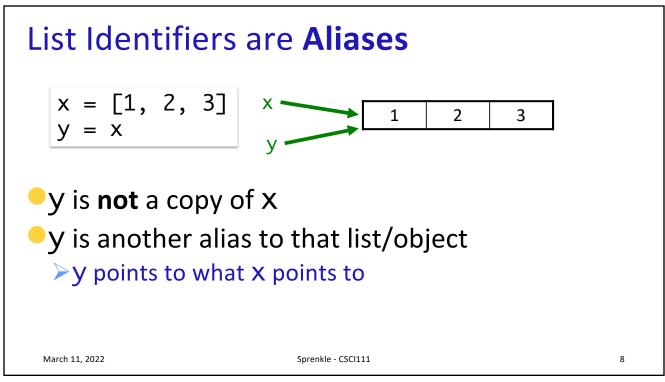
Concatenation	<seq> + <seq></seq></seq>	
Repetition	<seq> * <int-expr></int-expr></seq>	
Indexing	<seq>[<int-expr>]</int-expr></seq>	
Length	len( <seq>)</seq>	
Slicing	<seq>[:]</seq>	
Iteration	<pre>for <var> in <seq>:</seq></var></pre>	
Membership	<expr> in <seq></seq></expr>	

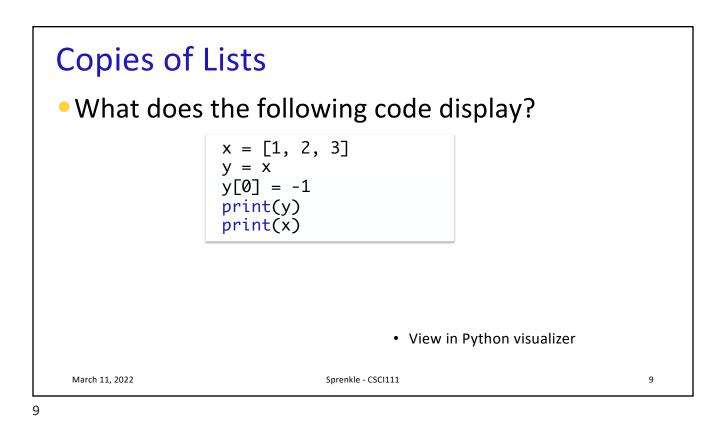
```
Review: Lists vs. Strings
• Strings are immutable
                                     • Lists are mutable
   \geq Can't be mutated?
                                        ➤ Can be changed
                                           • Called "change in place"
   Err, can't be
                                        Changes how we call/use
     modified/changed
                                          methods
     • A change requires recreation
groceryList=["milk", "eggs", "bread", "Doritos", "OJ", "sugar"]
groceryList[0] = "skim milk"
groceryList[3] = "popcorn"
groceryList is now ["skim milk", "eggs", "bread", "popcorn", "OJ", "sugar"]
  March 11, 2022
                               Sprenkle - CSCI111
                                                                     4
```

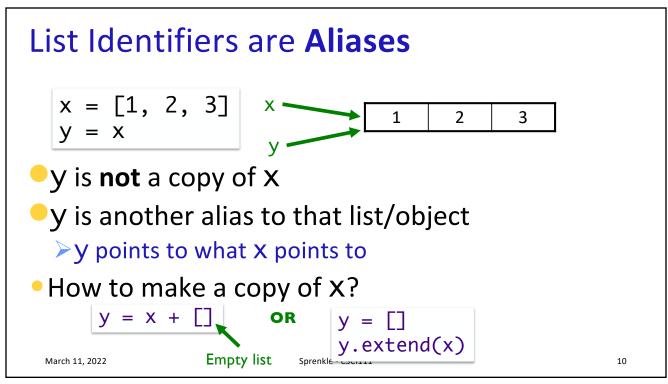




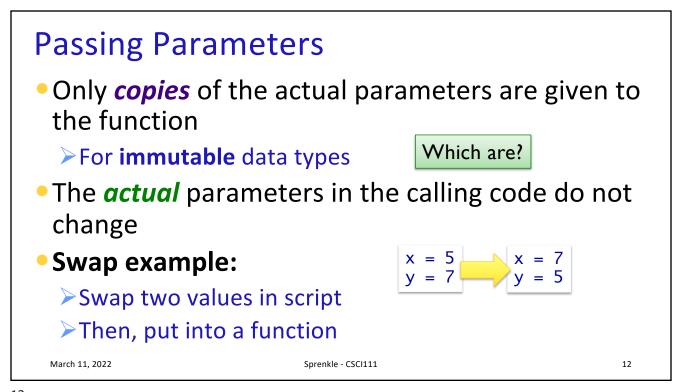


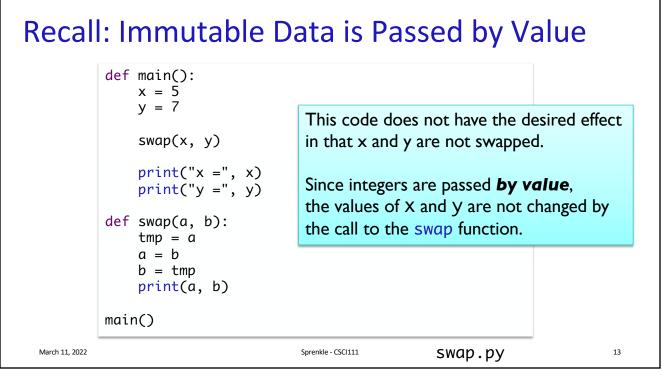


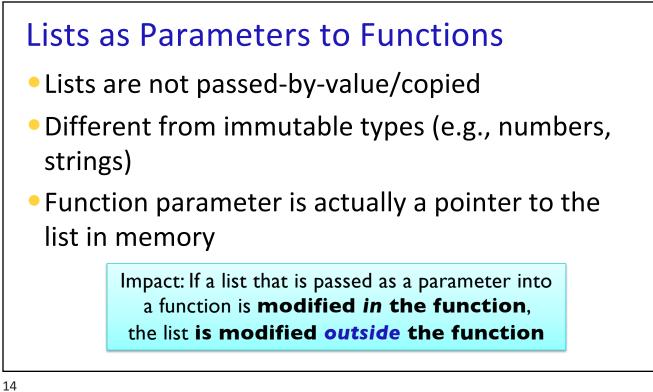


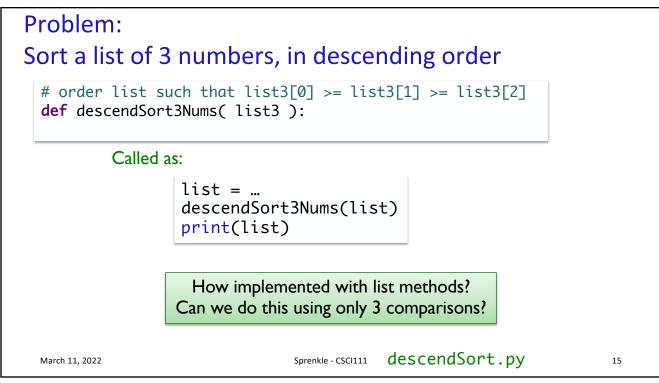


Immutable vs Mutable Para	ameters	
PASSING PAR	ΛΛΛΕΤΕΡΟ	
PASSING PAN	AIVIETERS	
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11		

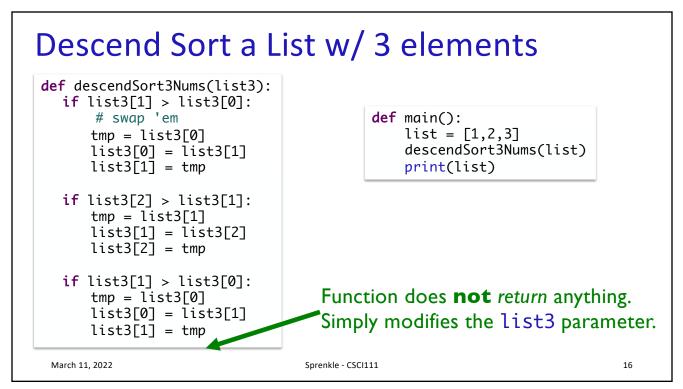






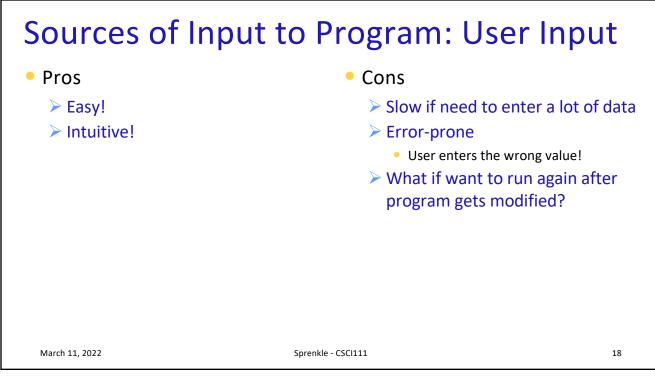


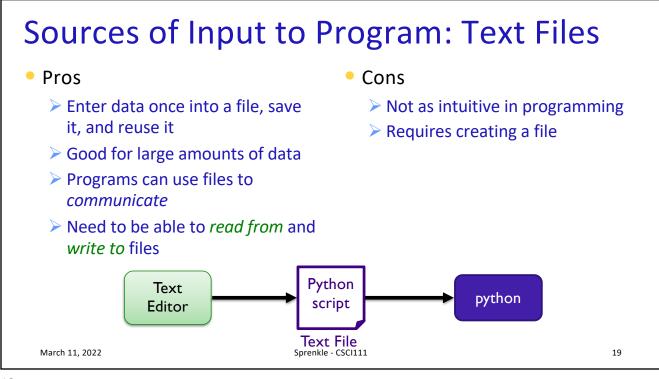




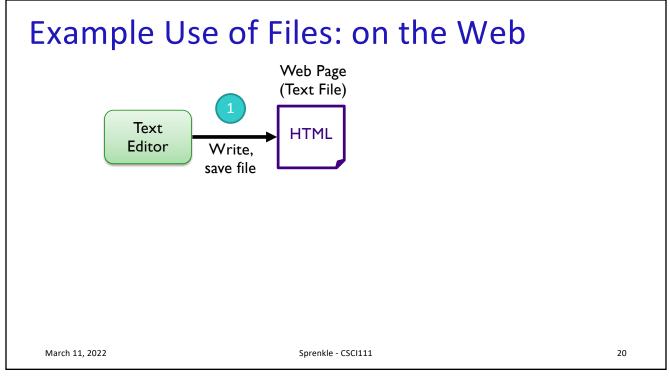
FILES		
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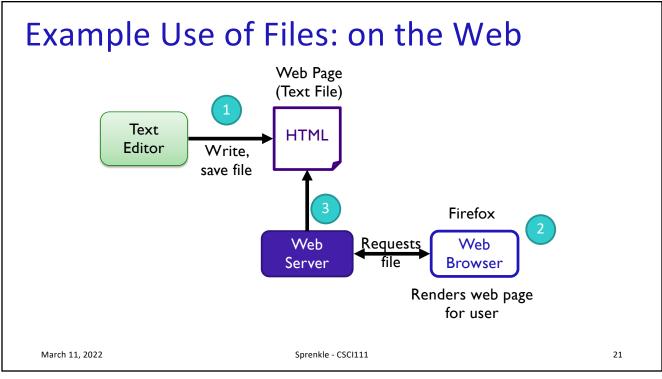




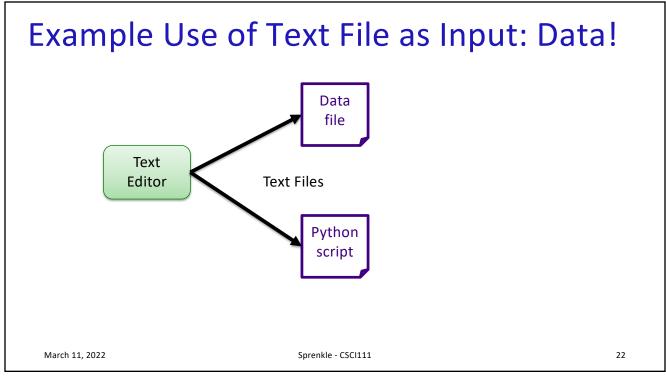


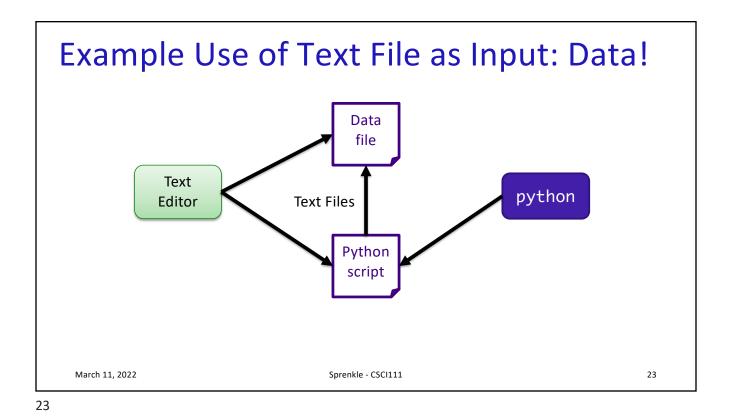


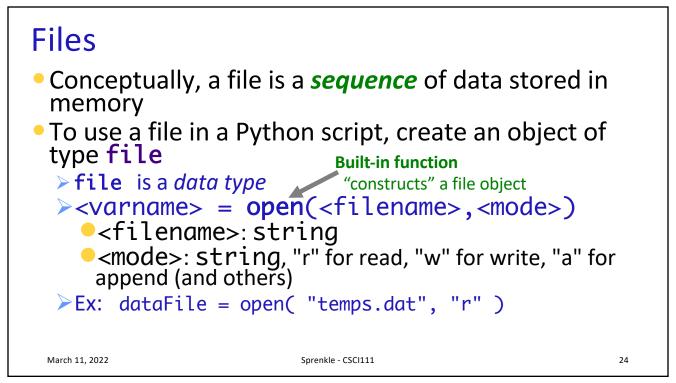


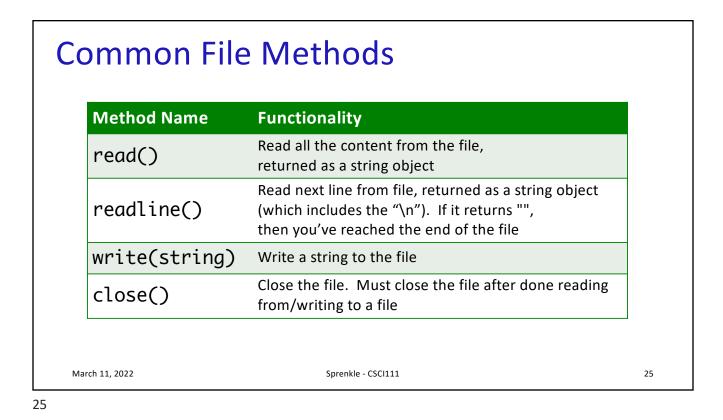












## **Reading from a File** Examples of reading from a file using file methods Typically use .dat or .txt >Example: data/famous\_pairs.txt file extension to name files containing data or text ●file\_read.py (using read()) How is what Python printed different than the file's content? $\geq$ How to fix? •Using readline() file\_read.py using\_readline.py March 11, 2022 Sprenkle - CSCI111 26

