

# More For Loops Problems:

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1. Iterating through a string using range() and a for loop

a. create a string and assign it to a variable

b. use a for loop without a range() to iterate through and print the contents of the string from step 1.a.

c. use a for loop with a range() to iterate through and print the contents of the string from step 1.a.

2. Using , and end to print output of a for loop on the same line

a. create a variable and assign it a list of integers

b. use a for loop with , and end to print all the integers from the list you made as one integer (eg if your list was [1, 2, 5, 7], the output of the for loop should be 1257)

c. use a for loop with , and end to print all the integers from the list you made with "X" between them (eg if your list was [4, 3, 2, 1], the output of the for loop should be 4X3X2X1X)

3. Using a for loop to iterate through a dictionary

a. create a dictionary and assign it to a variable

b. use a for loop to iterate through the dictionary and print its keys and values with the following form:

value key (eg, if your dictionary is {"first": 1, "second": 2}, your output should be 1 "first" and on another line 2 "second")(since dictionaries don't have to print in order, your output with {"first": 1, "second": 2} as your dictionary could have also been 2 "second" and on another line 1 "first")

4. zip()

a. create 2 lists of numbers and assign them to variables

b. use a for loop and zip() to iterate through both those lists, sum their values, and append those values to a new list (eg, if one of your lists is [1, 2] and your other list is [5, 9], then the for loop would iterate through them, add 1 to 5 resulting in 6 and add 2 to 9 resulting in 11)

c. print the new list (the resulting list from the example given in 4.b. would be [6, 11])

5. for/else

a. create a tuple with 5 elements that are all strings and assign it to a variable

b. create a for/else loop that prints the first 4 elements of the tuple from step 5.a. with its for loop portion and the fifth element of the tuple from step 5.a. with the else statement

c. create a for/else loop that prints the first 3 elements of the tuple from step 5 then ends prematurely before the else statement is triggered using a break statement

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