CS 1: Introduction to Computer Programming

Recitation 1: Introduction to Variables and Loops

Welcome to your first CS 1 "syntax recitation" of the term! These sessions aim to align with the material covered in lecture to help you identify common mistakes we've seen students make in the past (and programming) and lead you through some practice exercises with help!

Problems

WWPD?

Code

Answer the questions about each code block.

1

2 3

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- a = 2025 a = "Hello " **print**(a)
- (a) When the code is finished running, what is the type of a?
- (b) Does this code execute without any errors?
- (c) If so, what does it output? If not, fix the error.

Code a = 2025 a = "Hello " b = a a = "there." print(b)

- (a) When the code is finished running, what is the type of a?
- (b) When the code is finished running, what is the type of b?
- (c) Does this code execute without any errors?
- (d) If so, what does it output? If not, fix the error.

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Code

a = "there."

- print(b + a)
 - (a) When the code is finished running, what is the type of a?
 - (b) When the code is finished running, what is the type of b?
 - (c) Does this code execute without any errors?
 - (d) If so, what does it output? If not, fix the error.

Code		
a = 2025		
a = 2025 a = "Hello "		
b = a		
a = "there."		
a = 5.0		
<pre>print(a + b)</pre>		

(a) When the code is finished running, what is the type of a?

- (b) When the code is finished running, what is the type of b?
- (c) Does this code execute without any errors?
- (d) If so, what does it output? If not, fix the error.

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Code

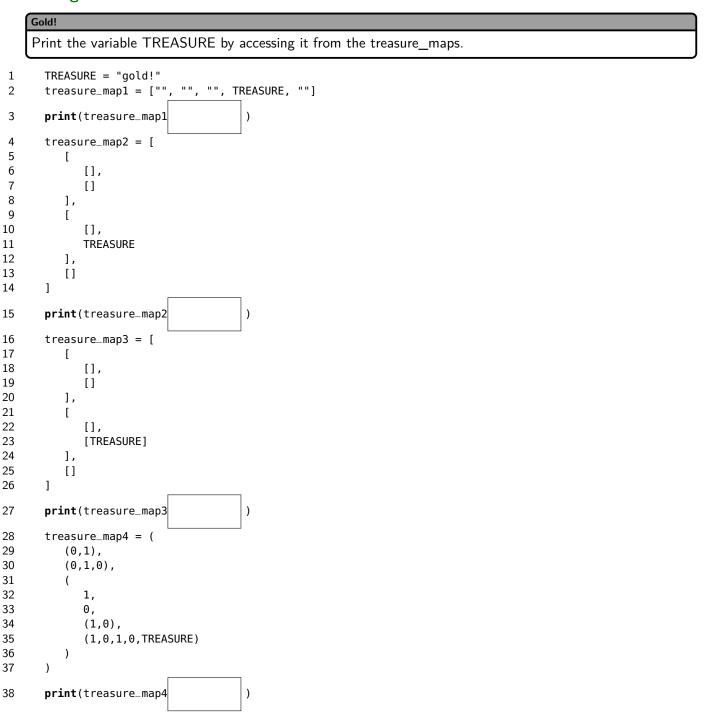
a = 2025
a = "Hello "
b = a
a = "there."
a = 5.0
print(a - b)

- (a) When the code is finished running, what is the type of a?
- (b) When the code is finished running, what is the type of b?
- (c) Does this code execute without any errors?
- (d) If so, what does it output? If not, fix the error.

Indexing strings, lists, and tuples

In this question, you'll work with a few different data types and common edge cases.

Finding Treasure

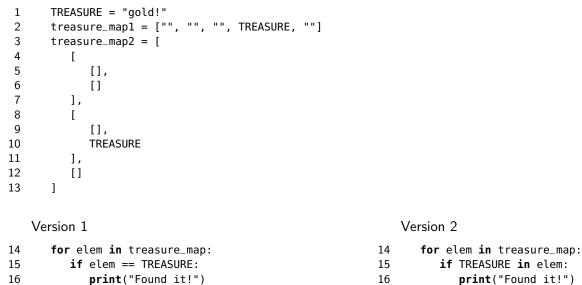


More Treasure

In this question, we will explore lists and for loops.

Treasure Map Part 1 and Part 2

Note whether the for loop would print "Found it!" for each respective treasure_map.



16	<pre>print("Found</pre>	it!")
10		TC . /

Treasure Map Part 3

16

Now, rewrite the for loop using range and len instead.