## CSC2-140 Foundations of Computer Science Exam 2 Part 1 October 18, 2017

	Soly tun
	name
	Im has 2 parts and this is part 1. This part is worth 60 points. Closed book, closed notes. You tuse any devices while taking this part of the exam.
1.	(2 pts. each) Fill in the blanks.
a. A th	nat does not change the original one) is called a(n)   M M U ha box data
b. A	is a variable or value used to select a member of an ordered collection, such as a character from a string, or an element from a list.
c. A	function which has no side effects rather it only make changes to the calling program hrough their return values is called a(n) <u>pure</u> <u>Lunctum</u> .
	hrough their return values is called a(n) <u>pure</u> <u>Hunctum</u> .  A(n) <u>SIDL</u> <u>effect</u> is a change in the state of a program made by calling a unction that is not a result of reading the return value from the function.
	data type is a data type in which the values are made up of components, or elements, that are themselves values.
	A(n) is a part of a string (substring) specified by a range of indices.
g. Y fi	ou must a file before you can read its contents. When you are done with a ite, you should close it.
2.	(8 pts.) What is the value of each of the following expressions:
	Python'[1]
b. "	'Strings are sequences of characters."[5]
c. le	en("wonderful") 9
d. '	Mystery'[:4] My St
e '1	p' in 'Pineapple' TYUQ

f. 'pear' not in 'Pineapple' Trwe
g. 'apple' > 'pineapple' False
h. 'pineapple' < 'Peach' False

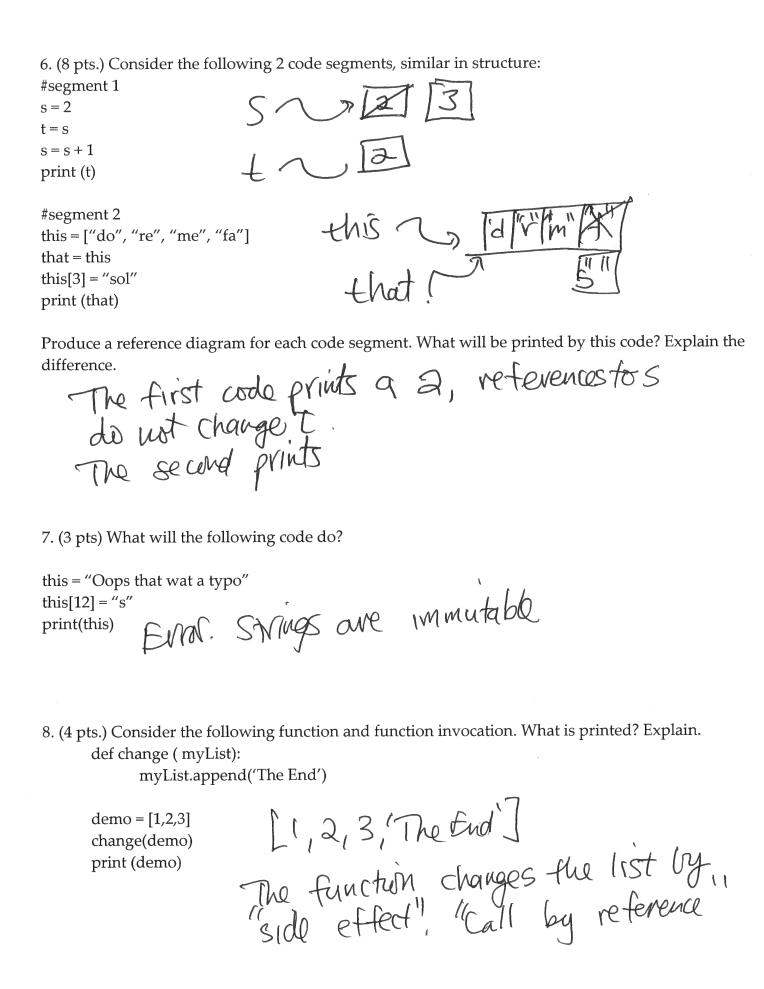
3. (5 pts.) Write a code segment that will create a list called scores that will contain 1000 random integers.

4. (5 pts.) Write a code segment that will create a tuple called evens containing all the even integers between 2 and 100 inclusive. *Hint: recall that a tuple holding the integer 5 has to be represented as (5,) rather than just (5).* 

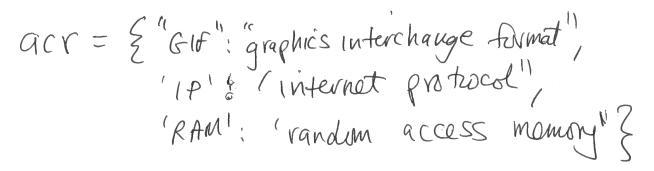
- 5. (2 pts. each) What is printed by the following code segments?
  - a. fr = {'one':'un', 'two':'deux', 'three':'trois'}
     del fr['one']
     print(len(fr))
  - b. fr = {'one':'un', 'two':'deux', 'three':'trois'}
     print('two' in fr)
  - c. fr = {'one':'un', 'two':'deux', 'three':'trois'}

    print(fr['four'])

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9. (3 pts.) Write a Python statement that would create a dictionary to translate acronyms to their full string. Include these three—GIF is "graphics interchange format", IP is "internet protocol", and RAM is "random access memory".



10. (4 pts.) Give what is printed out by the following code segments

a.

aList=["Hello","Goodbye"]

other = aList[:]

print(aList = other)

print (aList is other)

False

b.
str = 'Hello'
print(str.find('h'))
print(str.find('o'))