CS303E Week 8 Worksheet: More on Strings

Name:								. EI	D:			
Read the paper to o	do your	work a	and the	n copy	your a	nswers	neatly	_	_			
1. (11 or I false	in the	_				_	,	_				
(a)	Charac	cters ar	re a dif	ferent	type fr	om stri	ings in	Pytho	n.			
(b)	If strings s1 and s2 are equivalent, the expression s1 in s2 will return False because "in" checks for partial matches and not the complete operand length.											
(c)	In Python, you can directly modify a character within a string by using the index notation, like $s[2] = "z"$.											
(d)	(d) To loop over the indices of string s, you can do for i in range(len(s) + 1).											
(e)	(e) Strings in Python are 0-based indexed (i.e., the first character is at index 0).									(0).		
(f)	The strip() method in Python removes both leading and trailing whitespace from a string.											
(g)	Python (<, <=		-		pare sta their l	_	_	e relat	ional o	perato	rs	
(h)	Strings	s can ir	ndexed	using	negativ	e num	bers.					
(i)	On str	ing s, m	min(s)	== ma	ax(s) v	will alw	ays ev	aluate	to Fals	se.		
(j)	islowe as a pa				d isal n being						ake a s	tring
(k)	When each it			in loo	ps like	for i	in s,	i will	refer t	so a ch	ıaracteı	of s
	a	b	С	d	e	f	g	h	i	j	k	

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Questions 2-9 are multiple choice. Each counts 2 points. Write the letter of the BEST answer in the box on the next page. Please write your answer in UPPERCASE. Each problem has a single answer.

2.	. What is the result of "oink oink" * 2 + " oink"?						
	B. "oink o	ink oink oi					
3.	What is the r	result of "Tee	hee".find("e	e")?			
	A. 1	B. 2	C. 4	D. 5	E1		
4.	Which operat	or can be use	ed to check if a	a substring is p	present in a string?		
	A. contains	B. in	C. exists	D. substrin	g E. Both A and B		
5.	If $s = "Basillen(s) - les$	•	*	he result of th	e expression		
	A. 0	B. 1	C. 2	D. 3	E. None of the above		
6.	Which of the	following sta	tements is true	e about Pythor	n strings?		
	B. Strings c C. Strings n	an be modified must always be converted	ain letters and ed in place. The enclosed in output to other date.	double quotes.			
7.	What does th	ne replace()	method do wl	nen applied to	a string?		

A. It removes all whitespace from the string.

C. It reverses the characters in the string.

D. It raises an error since strings are immutable.

B. It replaces all occurrences of one substring with another.

- 8. If you want to traverse through a string S using negative indices in Python, which loop should you use?
 - A. for char in S
 - B. for i in range(len(S))
 - C. for i in range(-len(S), 0, -1)
 - D. for i in range(-len(S), 0)
 - E. for i in range(-1, -len(S)-1, -1)
 - F. C, D, and E
 - G. C and E
- 9. If s is a string, which expression will always evaluate to True?
 - A. chr(ord(s))) == s
 - B. s.upper().lower() == s
 - C. s[0:len(s)] == s
 - D. All of the above

2	3	4	5	6	7	8	9

The following 7 questions require you to trace the behavior of some Python code and identify the output of that code. For each question, write the output for the code segment on the provided line.

```
10. (3 points)
   s = "vpduwFrrnlh"
   new = ""
   for char in s:
      new += chr(ord(char) - 3)
   print(new)
11. (3 points)
   s = "SillyGoose-781"
   result = ""
   for char in s:
       if char in str(not s):
           result += "B"
       elif char.isalpha():
           result += char.upper()
       elif char.isdigit():
           result += str(int(char) + 5)
       else:
           result += char
   print(result)
12. (3 points)
   s = "oompaLoompa"
   result = (s[-len(s):-len(s)+5] + " " + s[-6:])
   print(result)
```

```
13. (3 points)
   spongebob = "goofyG00ber"
   patrick = "krus7ykr4b"
   gary = "+25"
   sandy = patrick.islower() and patrick[999:9999] == ""
   squidward = gary.isalnum() and gary.isdigit()
   mrKrabs = spongebob[6:8].isdigit() and spongebob.count("o") == 2
   print(sandy, squidward, mrKrabs)
14. (3 points)
   def catInTheHat(thing1, thing2):
       thing1 = thing1 + thing2
       thing2 = thing1
       print(thing1 is thing2)
   string1 = "greenEggs"
   string2 = "Ham"
   catInTheHat(string1, string2)
   print(string1, string2)
15. (3 points)
   myGuineaPig = "Jerry" # =)
   print(myGuineaPig[0:1000] * 2)
16. (3 points)
   alpha, beta = "castiel", "dean"
   omega = beta[:2] + alpha[2:]
   sigma = beta[:len(beta)] + alpha[:3]
   print(min(omega, sigma), max(omega, sigma))
```