Back to 'Lab 6 - Lists and Strings'

Started on	Monday, 29 October 2018, 10:27 PM
State	Finished
Completed on	Tuesday, 30 October 2018, 10:14 AM
Time taken	11 hours 47 mins
Grade	**6.00** out of 6.00 (**100**%)

Question 1

Correct

Not graded

Enter your partner's UD email address. If you did not work with a partner enter the word "none".

Answer: bobbymcc@udel.edu

Question 2

Correct

Mark 0.50 out of 0.50

Write an *expression* that refers to the value of the third character in the previously-assigned string-valued variable **myStr**.

For example:

Test	Result
`myStr="help!"`	`l`

Answer:

```
1  myStr[2]
```

	Test	Expected	Got	
✓	`myStr="help!"`	`l`	`l`	✓
✓	`myStr="once upon a time"`	`c`	`c`	✓

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.

Question 3

Correct

Mark 0.50 out of 0.50

Write an *expression* that is the value of the next-to-last character in the previously-assigned string-valued variable **dow**.

For example:

Test	Result
`dow="help!"`	`p`

Answer:

```
1 dow[-2]
```

	Test	Expected	Got	
✓	`dow="help!"`	`p`	`p`	✓
✓	`dow="once upon a time"`	`m`	`m`	✓

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.

Question 4

Correct

Mark 0.50 out of 0.50

Write an *expression* that is the value of the fifth through seventh characters in a previously-assigned string-valued variable **phoneNumber**.

For example:

Test	Result
`phoneNumber="302-592-1212"`	`592`

Answer:

```
1 phoneNumber[4:7]
```

	Test	Expected	Got	
✓	`phoneNumber="302-592-1212"`	`592`	`592`	✓
✓	`phoneNumber="302-831-2413"`	`831`	`831`	✓

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.

Question 5

Correct

Mark 0.50 out of 0.50

Write an *expression* that is the value of the last four characters in the previously-assigned string-valued variable **ssn**.

For example:

Test	Result
`ssn='213-81-7234'`	`7234`

Answer:

```
1 ssn[-4:]
```

	Test	Expected	Got	
✓	`ssn='213-81-7234'`	`7234`	`7234`	✓
✓	`ssn="556-29-1279"`	`1279`	`1279`	✓

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.

Question 6

Correct

Mark 0.50 out of 0.50

Write an *expression* that will be **True** if and only if the first character of the string variable **name** is 'A'.

For example:

Test	Result
`name='Albuquerqe'`	`True`

Answer:

```
1 name[0] == "A"
```

	Test	Expected	Got	
✓	`name='Albuquerqe'`	`True`	`True`	✓
✓	`name="Santa Fe"`	`False`	`False`	✓

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.

Question 7

Correct

Mark 0.50 out of 0.50

Write an *expression* that is the value of the first three characters in the previously-assigned string-valued variable **dow**.

For example:

Test	Result
`dow="Monday"`	`Mon`

Answer:

```
1  dow[:3]
```

	Test	Expected	Got	
✓	`dow="Monday"`	`Mon`	`Mon`	✓
✓	`dow="Tuesday"`	`Tue`	`Tue`	✓

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.

Question 8

Correct

Mark 0.50 out of 0.50

Write an *expression* that will be **True** if and only if the the string variable **word** begins with 'pseudo'.

For example:

Test	Result
`word='pseudopod'`	`True`

Answer:

```
1  word[0:6] == "pseudo"
```

	Test	Expected	Got	
✓	`word='pseudopod'`	`True`	`True`	✓
✓	`word="helmet"`	`False`	`False`	✓

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.

Question 9

Correct

Mark 0.50 out of 0.50

Given a list of lists called **lol**, print the value second row, second column.

Answer:

```
print(lol[1][1])
```

	Test	Expected	Got	
✓	`lol=[[1,2,3],[4,5,6],[7,8,9]]`	5	5	✓
✓	`lol=[[1,2],[3,4],[5,6,7]]`	4	4	✓

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.

Question 10

Correct

Mark 0.50 out of 0.50

Assign the variable **lol** to a list of 4 lists, each of which is length 3. Use any values you like in the sub-lists.

Answer:

```
lol = [[1,2,3],[4,5,6],[7,8,9],[10,11,12]]
```

	Test	Expected	Got	
✓	`print(len(lol))`	4	4	✓
✓	`for lst in lol:` `  print(type(lst))`	`<class 'list'>` `<class 'list'>` `<class 'list'>` `<class 'list'>`	`<class 'list'>` `<class 'list'>` `<class 'list'>` `<class 'list'>`	✓
✓	`for lst in lol:` `  print(len(lst))`	3 3 3 3	3 3 3 3	✓

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.

Question 11

Correct

Mark 0.50 out of 0.50

Two variables, **m** and **n**, have been defined to have positive integer values. Define a list of lists **multTable** of length **n** with each item being a list of length **m**. Each location **(i,j)** should have the value **i*j**.

For example:

Test	Result
m=2 n=2	`[[0, 0], [0, 1]]`

Answer:

```
multTable = []
for i in range(n):
    multTable.append([])
    for j in range(m):
        value = i * j
        multTable[i].append(value)

```

	Test	Expected	Got
✓	m=2 n=2	`[[0, 0], [0, 1]]`	`[[0, 0], [0, 1]]`
✓	m=3 n=3	`[[0, 0, 0], [0, 1, 2], [0, 2, 4]]`	`[[0, 0, 0], [0, 1, 2], [0, 2, 4]]`
✓	m=3 n=4	`[[0, 0, 0], [0, 1, 2], [0, 2, 4], [0, 3, 6]]`	`[[0, 0, 0], [0, 1, 2], [0, 2, 4], [0, 3, 6]]`

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.

Question 12

Correct

Mark 0.50 out of 0.50

The variable **lst** references a list value. Use a list *method* to sort the list.

Answer:

```
1 lst.sort()
```

	Test	Expected	Got	
✓	`lst=[3,2,1,7]`	`[1, 2, 3, 7]`	`[1, 2, 3, 7]`	✓
✓	`lst= ['hi','lo','a','c',"fish"]`	`['a', 'c', 'fish', 'hi', 'lo']`	`['a', 'c', 'fish', 'hi', 'lo']`	✓

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.

Question 13

Correct

Mark 0.50 out of 0.50

A list called **ages** has been previously defined to have integer values. A variable named **age** has also been defined with an integer value. Using a list method, write an expression for the number of times that **age** appears in **ages**.

For example:

Test	Result
`ages=[10,11,12,9,10] age=10`	2

Answer:

```
1 ages.count(age)
```

	Test	Expected	Got	
✓	`ages=[10,11,12,9,10] age=10`	2	2	✓
✓	`ages=[2,7,3,2,2,9,1] age=2`	3	3	✓
✓	`ages = [5,6,7,9] age=8`	0	0	✓

Passed all tests! ✓

Correct

Marks for this submission: 0.50/0.50.