course_1_assessment_11

Due: 2018-11-25 01:25:00

Description: Assessment for Way of Programmer Week four. Score: 2.0 of 11 = 18.2%

Questions

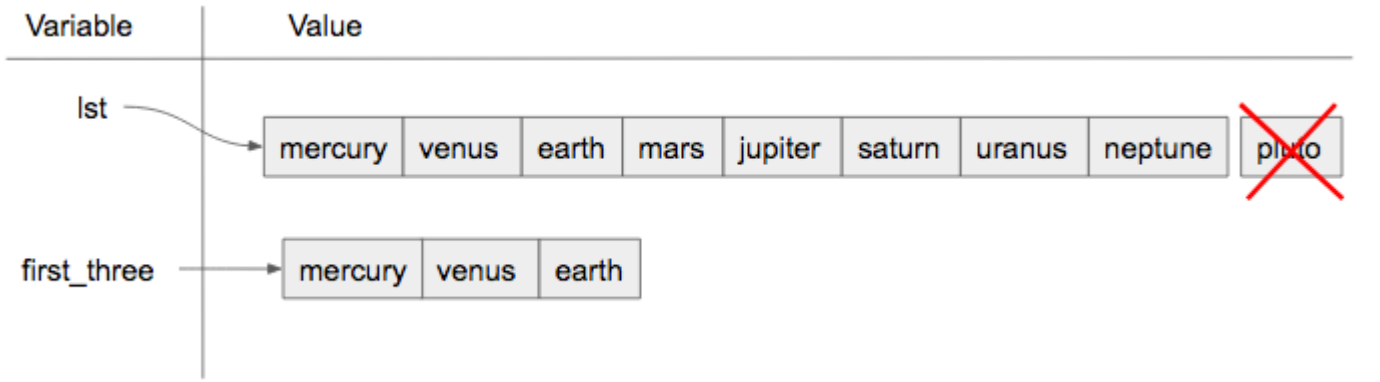
seqmut-1-1: Which of these is a correct reference diagram following the execution of the following code?

Score: 1.0 / 1

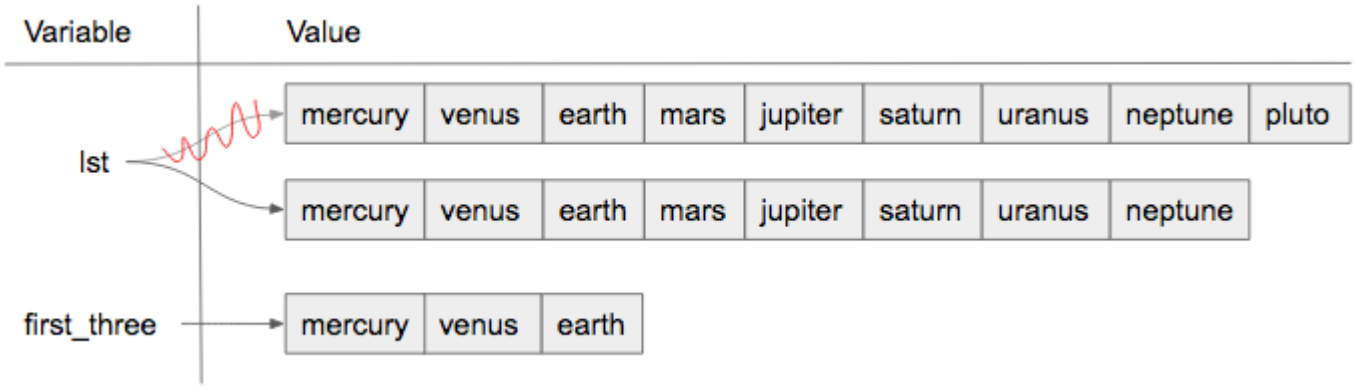
Comment: autograded

```
lst = ['mercury', 'venus', 'earth', 'mars', 'jupiter', 'saturn', 'ura
lst.remove('pluto')
first_three = lst[:3]
```

1.



2.



- (●) A. I.
- ( ) B. II.
- ( ) C. Neither is the correct reference diagram.

Check me | Compare me

✔ Yes, when we are using the remove method, we are just editing the existing list, not making a new copy.

Multiple Choice (assess_question4_1_1_1)

seqmut-1-4: What will be the value of `a` after the following code has executed?

Not yet graded

```
a = ["holiday", "celebrate!"]
quiet = a
quiet.append("company")
```

The value of `a` will be

['holiday', 'celebrate!', 'comp

Check me | Compare me

Good work!

Fill in the Blank (assess_question3_3_1_1)

seqmut-1-5: Could aliasing cause potential confusion in this problem?

Score: 1.0 / 1

Comment: autograded

```
b = ['q', 'u', 'i']
z = b
b[1] = 'i'
z.remove('i')
print(z)
```

(•) A. yes

( ) B. no

Check me | Compare me

✔ Yes, b and z reference the same list and changes are made using both aliases.

Multiple Choice (assess_question3_3_1_2)

seqmut-1-13: Given that we want to accumulate the total sum of a list of numbers, which of the following accumulator patterns would be appropriate?

Not yet graded

1.

```
nums = [4, 5, 2, 93, 3, 5]
s = 0
for n in nums:
    s = s + 1
```

2.

```
nums = [4, 5, 2, 93, 3, 5]
s = 0
for n in nums:
    s = n + n
```

3.

```
nums = [4, 5, 2, 93, 3, 5]
s = 0
for n in nums:
    s = s + n
```

A. I.

B. II.

C. III.

D. none of the above would be appropriate for the problem.

Check me | Compare me

✔ Yes, this will solve the problem.

Multiple Choice (assess_question5_2_1_1)

seqmut-1-14: Given that we want to accumulate the total number of strings in the list, which of the following accumulator patterns would be appropriate?

Not yet graded

1.

```
lst = ['plan', 'answer', 5, 9.29, 'order, items', [4]]
s = 0
for n in lst:
    s = s + n
```

2.

```
lst = ['plan', 'answer', 5, 9.29, 'order, items', [4]]
for item in lst:
    s = 0
    if type(item) == type("string"):
        s = s + 1
```

3.

```
lst = ['plan', 'answer', 5, 9.29, 'order, items', [4]]
s = ""
for n in lst:
    s = s + n
```

4.

```
lst = ['plan', 'answer', 5, 9.29, 'order, items', [4]]
s = 0
for item in lst:
    if type(item) == type("string"):
        s = s + 1
```

A. 1.

B. 2.

C. 3.

D. 4.

E. none of the above would be appropriate for the problem.

Check me | Compare me

✔ Yes, this will solve the problem.

Multiple Choice (assess_question5_2_1_2)

seqmut-1-15: Which of these are good names for an accumulator variable? Select as many as apply.

Not yet graded

A. sum

B. x

C. total

D. accum

E. none of the above

Check me | Compare me

✔ Correct.
C. Yes, total is a good name for accumulating numbers.
D. Yes, accum is a good name. It's both short and easy to remember.

Multiple Choice (assess_question5_2_1_3)

seqmut-1-16: Which of these are good names for an iterator (loop) variable? Select as many as apply.

Not yet graded

- [x] A. item
- [ ] B. y
- [x] C. elem
- [x] D. char
- [ ] E. none of the above

Check me | Compare me

✔ Correct.
A. Yes, item can be a good name to use as an iterator variable.
C. Yes, elem can be a good name to use as an iterator variable, especially when iterating over lists.
D. Yes, char can be a good name to use when iterating over a string, because the iterator variable would be assigned a character each time.

Multiple Choice (assess_question5_2_1_4)

seqmut-1-17: Which of these are good names for a sequence variable? Select as many as apply.

Not yet graded

- [x] A. num_lst
- [ ] B. p
- [x] C. sentence
- [x] D. names
- [ ] E. none of the above

Check me | Compare me

✔ Correct.
A. Yes, num_lst is good for a sequence variable if the value is actually a list of numbers.
C. Yes, this is good to use if the for loop is iterating through a string.
D. Yes, names is good, assuming that the for loop is iterating through actual names and not something unrelated to names.

Multiple Choice (assess_question5_2_1_5)

seqmut-1-18: Given the following scenario, what are good names for the accumulator variable, iterator variable, and sequence variable? You are writing code that uses a list of sentences and accumulates the total number of sentences that have the word ‘happy’ in them.

Not yet graded

- A. accumulator variable: x | iterator variable: s | sequence variable: lst
- B. accumulator variable: total | iterator variable: s | sequence variable: lst
- C. accumulator variable: x | iterator variable: sentences | sequence variable: sentence_lst
- D. accumulator variable: total | iterator variable: sentence |sequence variable: sentence_lst
- E. none of the above

Check me | Compare me

✔ Yes, this combination of variable names is the clearest.

Multiple Choice (assess_question5_2_1_6)

Not yet graded

For each character in the string saved in `ael` , append that character to a list that should be saved in a variable `app` .

Save & Run 6/25/2021, 2:23:40 PM - 2 of 2 Show in CodeLens

```
1 ael = "python!"
2
3 lst = []
4 for i in ael:
5     lst.append(i)
6 app = lst
7
```

ActiveCode (access_ac_5_2_1_1)

Result	Actual Value	Expected Value	Notes	
Pass	['p',... '!']	['p',... '!']	Testing that app has the correct elements.	Expand Differences
Pass	'append'	'ael =... lst\n'	Testing that your code uses append.	Expand Differences

You passed: 100.0% of the tests

Not yet graded

For each string in `wrds`, add 'ed' to the end of the word (to make the word past tense). Save these past tense words to a list called `past_wrds`.

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```
1 wrds = ["end", 'work', "play", "start", "walk", "look", "open", "rain", "learn", '
2 lst = []
3 for i in wrds:
4     i = i + "ed"
5     lst.append(i)
6 past_wrds = lst
```

ActiveCode (access_ac_5_2_1_2)

Result	Actual Value	Expected Value	Notes	
Pass	['end...ned']	['end...ned']	Testing that past_wrds has the correct value.	Expand Differences

Pass	'for '	'wrds ...= lst'	Testing that your code uses a for loop.	Expand Differences

You passed: 100.0% of the tests

Score Me

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