Learning Quiz 16: Two-Dimensional Lists

Due Oct 30 at 1pm   **Points** 5   **Questions** 5   **Available** until Dec 4 at 11:59pm
Time Limit None   **Allowed Attempts** Unlimited

Instructions

Prior to completing this quiz, be sure to read:

- Section 5.3, More on Lists: Two-Dimensional Lists (p. 139)

Please also go over Practice Problem 5.9 in the textbook (solutions at the end of the chapter) before attempting this quiz.

This quiz was created for learning purposes. You may attempt this quiz as many times as you would like. The highest score *prior to the deadline* will count towards the final course grade. No late submissions will be accepted.

<div style="text-align:center">

Take the Quiz Again

</div>

Attempt History

	Attempt	Time	Score
LATEST	[Attempt 1](#)	11 minutes	4.83 out of 5

Score for this attempt: **4.83** out of 5
Submitted Oct 28 at 4pm
This attempt took 11 minutes.

Question 1	1 / 1 pts

During our first class meeting, we briefly mentioned that it is possible to have a list within a list. We can use this feature to create two-dimensional lists.

```
my2dlist = [[1,2,3],[4,5,6],[7,8,9]]
```

To access the number 2, we want index 1 of index 0 in my2dlist.

```
>>> my2dlist[0][1]
2
```

Using the same my2dlist, match the following variables with their corresponding integers.
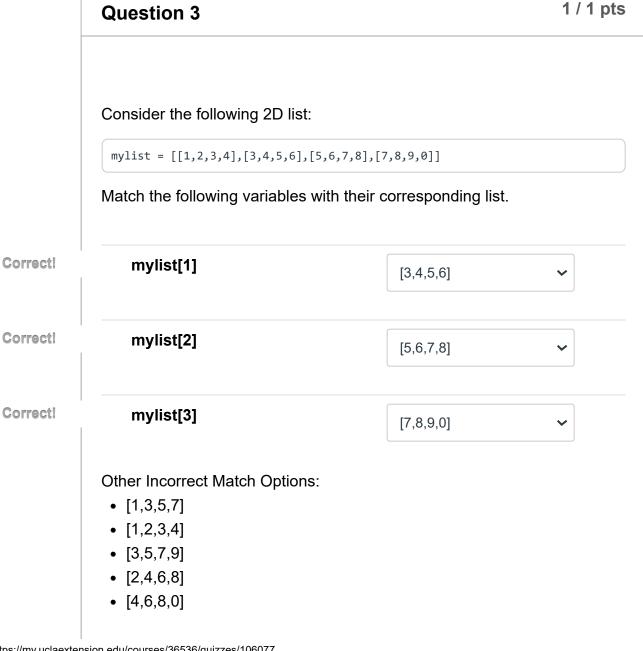
Correct!   **my2dlist[1][1]**   5 ⌄

Correct!   **my2dlist[2][1]**   8 ⌄

Correct!   **my2dlist[2][2]**   9 ⌄

Correct!   **my2dlist[1][0]**   4 ⌄

Other Incorrect Match Options:
- 6
- 1
- 3
- 2
- 7

Question 2   1 / 1 pts

True/False: You can create a list of lists with different lengths.

For example:

```
[[1,2,3],[4,5],[7,8,9]]
```

Correct!

◉ True

○ False

Question 3   1 / 1 pts

Consider the following 2D list:

```
mylist = [[1,2,3,4],[3,4,5,6],[5,6,7,8],[7,8,9,0]]
```

Match the following variables with their corresponding list.

Correct!   **mylist[1]**   [3,4,5,6]   ⌄

Correct!   **mylist[2]**   [5,6,7,8]   ⌄

Correct!   **mylist[3]**   [7,8,9,0]   ⌄

Other Incorrect Match Options:
- [1,3,5,7]
- [1,2,3,4]
- [3,5,7,9]
- [2,4,6,8]
- [4,6,8,0]

Question 4

1 / 1 pts

Consider the following 3D list:

```
mylist = [[[1,2,3],[4,5,6],[7,8,9]],[[4,5,6],[7,8,9],[1,2,3]],[[1,2,3],[4,5,6],[7,8,9]]]
```

Which of the following will give us [1,2,3]?

Correct!   ☑ mylist[2][0]

Correct!   ☑ mylist[0][0]

☐ mylist[3][3]

☐ mylist[1][1]

☐ mylist[2][2]

☐ mylist[2][3]

☐ mylist[1][3]

☐ mylist[0][3]

☐ mylist[1][0]

☐ mylist[2][1]

☐ mylist[0][2]

☐ mylist[0][1]

Correct!   ☑ mylist[1][2]

Question 5	0.83 / 1 pts

Consider the following 3D list:

```
mylist = [[[1,2,3],[4,5,6],[7,8,9]],[[4,5,6],[7,8,9],[1,2,3]],[[1,2,3],[4,5,
6],[7,8,9]]]
```

Fill in the blanks with single digit numbers so that we are able to access the number **3**.

mylist[0][0][0]

mylist[1][2][2]

mylist[2][0][2]

Quiz Score: **4.83** out of 5