

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	21 minutes	19 out of 20

⚠️ Correct answers will be available on Oct 24 at 12am.

Score for this quiz: **19** out of 20

Submitted Oct 14 at 7:31pm

This attempt took 21 minutes.

Question 1

1 / 1 pts

Given a matrix $m = \begin{bmatrix} a & 1 & 2 \\ b & 3 & 4 \\ c & 5 & 6 \\ d & 7 & 8 \end{bmatrix}$, the element 'c' can be accessed as

☐ $m[3][1]$

☐ $m[6]$

☐ $m[7]$

☒ $m[2][0]$

That's correct!

Question 2**1 / 1 pts**

Match the operations in list and its return values _____

	A	B
a. in		I. an element of a list
b. slicing		II. None
c. inde		III. Boolean value
d. appending		IV. a list

☐ a - IV, b - III, c - I, d - II

☒ a - III, b - IV, c - I, d - II

☐ a - II, b - IV, c - I, d - III

☐ a - III, b - I, c - IV, d - II

That's correct!

Incorrect**Question 3****0 / 1 pts**

```
<pre>for i in range(0,n):
    if l[i] > l[i+1]:
        break
else:
    print('Yes')</pre>
```

Assertion (A): The above code does not raise error when l = [5,4,3,2,1]

Reason (R): Loop doesn't go upto last element in the list, breaks after checking the first element with second one

☐ A is true R is false 
☒ Both A and R are true, R is not a correct explanation for A

☐ Both A and R are false

- *
☐ Both A and R are true, R is correct explanation for A



That's incorrect! Revisit the videos for this week.

Question 4

1 / 1 pts

Given a list of integers $I = [12, 34, 45, 27, 89, 92, 124, 39, 103, 145]$,
_____ command will find sum of second to eighth elements in the list

☐ `sum(I[1:9])`

☐ `sum(I[2:9])`

☒ `sum(I[1:8])`

☐ `sum(I[2:8])`

That's correct!

Question 5

1 / 1 pts

When a built-in function does not return a value, but user tries to store return value in a variable 'r', then _____

☐ r will contain zero

☒ r will contain None

☐ Error will be raised

☐ r will not exist

That's correct!

Question 6

1 / 1 pts

The following code is written to print Yes if the elements of the list are in ascending order. But this code raises out of range error which can be rectified by _____

```
<pre> for i in range(0,n):
```

```
    if l[i] > l[i+1]:
```

```
        break
```

```
else:
```

```
    print("Yes")</pre>
```

☐ changing > to < in if

☐ changing 0 to 1 in for loop

☒ changing n to n-1 in for loop

☐ removing the break

That's correct!

Question 7

1 / 1 pts

Consider the following command

`a = input().split()`, if the input is a string 'I love Python'

then 'a' will be _____

- ☒ list of strings
- ☐ string
- ☐ list of ascii values
- ☐ list of floats

That's correct!

Question 8

1 / 1 pts

Given a list, `l1 = ['Apple', 'Ball', 'Cat', 'Doll', 'Eagle']`,

`l1[1][2] = 'r'` will _____

- ☐ Raises error as lists are mutable
- ☐ Modify the list to ['Apple', 'Barl', 'Cat', 'Doll', 'Eagle']
- ☐ Raises error as lists are immutable
- ☒ Raises error as strings are immutable

That's correct!

Question 9**1 / 1 pts**

Consider the below block of code:

```
<pre>l = [4, 56, 78, 12, 19, 3]
```

```
n = len(l)
```

```
for i in range(-1, x, -1):
```

```
    print(l[i])</pre>
```

what should be the value of x, to print the elements of the list in reverse?

☐ n☐ n-1☒ -n-1☐ -n

That's correct!

Question 10**1 / 1 pts**

Given a 3x3 matrix,

```
<pre>m = 1 2 3
```

```
    4 5 6
```

```
    7 8 9
```

Your teacher wants you to print the rows in reverse order that is to print last row to first row as shown below:

```
7 8 9
```

```
4 5 6
```

```
1 2 3</pre>
```

What should be the values of p, q, r, x, y and z in the following code to achieve it?

```
<pre>for i in range(p,q,r):  
    for j in range(x,y,z):  
        print(m[i][j],end = ' ')  
print() </pre>
```

☐ 2, -1, -1, 0, 3, -1

☒ 2, -1, -1, 0, 3, 1

☐ 2, -1, -1, 0, 2, 1

☐ 2, 0, -1, 0, 3, 1

That's correct!

Question 11

1 / 1 pts

When step value of a slicing operator is negative, to get a non empty list we should have start value _____ end value

☐ less than

☐ equal to

☐ not equal to

☒ greater than

That's correct!

Question 12**1 / 1 pts**

Let $I = [1, 2, 3]$, consider the below block of code C1 and C2 and comment on them:

```
<pre>C1    C2
```

```
I2 = [math.sqrt(x) for x in I] for x in I:
```

```
    I3.append(math.sqrt(x))</pre>
```

- ☐ C2 is creation of list
- ☒ C1 creates a list whereas C2 only appends a list
- ☐ C1 needs I2 to exist before this line
- ☐ Both C1 and C2 are same

That's correct!

Question 13**1 / 1 pts**

A sublist from an existing list may be obtained by _____ operation

- ☐ find
- ☐ deleting
- ☒ Slicing
- ☐ Indexing

That's correct!

Question 14

1 / 1 pts

Let l be a list in Python, consider the two commands

```
<pre> C1  l[:] = []
```

```
C2  del l </pre>
```

What does C1 and C2 do?

- ☐ C1 deletes the list and C2 raises error
- ☒ C1 removes all the elements of list l but object l exist and C2 deletes the list, removes the object l
- ☐ C1 gives error and C2 deletes
- ☐ Both C1 and C2 deletes the list

That's correct!

Question 15

1 / 1 pts

In Python, given a list of elements $l = [4, 56, 78, 12, 19, 3]$

Assertion (A): The statement, $l[2] = 100$, works

Reason(R) : Lists are immutuable sequences in Python

- ☐ Both A and R are true and R is not correct explanation of A

- ☐ Both A and R are true and R is correct explanation of A
- ☐ Both A and R are false
- ☒ A is true but R is false

That's correct!

Question 16

1 / 1 pts

Let m be a matrix with four rows

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

as above, `del m[3]` will _____

- ☐ raise error
- ☐ remove 3rd element from first row
- ☐ deletes the matrix
- ☒ removes the third row from the matrix

That's correct!

Question 17

1 / 1 pts

Consider a list `l = [12, 45, 37, 29, 10, 5, 78, 109, 38, 203]`, command to obtain a sublist `l1`, from third to seventh element in reverse is _____ ((i.e.) `l1` should be `[78, 5, 10, 29, 37]`)

☒ I[6:1:-1]☐ I[8:3:-1]☐ I[6:2:-1]☐ I[6::-1]

That's correct!

Question 18**1 / 1 pts**

Each row of a matrix is represented as a _____ in python

☐ string☐ integer☐ float☒ list

That's correct!

Question 19**1 / 1 pts**

A list in Python _____

I. can have a group of elements

II. Elements of a list can be heterogenous

- ☐ II is true
- ☐ I is true
- ☐ Both I and II are False
- ☒ Both I and II are true

That's correct!

Question 20

1 / 1 pts

First 'm' elements of list 'l' with 'n' elements where $m \leq n$, can be taken using _____

- ☐ `l[0:m+1]`
- ☐ `l[0:m-1]`
- ☒ either `l[0:m]` or `l[:m]`
- ☐ `l[0:]`

That's correct!

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