What are the valid indices of `lst`?

-3, -2, -1, 0, 1, and 2
-2, -1, 0, 1, and 2
0, 1, and 2
1, 2, and 3

Correct Answer:
-3, -2, -1, 0, 1, and 2

What happens if I call `lst[-1]`?

- Evaluates to 'santa maria'
- Evaluates to 'pinta'
- Error
- Evaluates to 'nina'

Correct Answer:
Evaluates to 'santa maria'

What happens if I call `lst[-len(lst)]`?

- Evaluates to 'santa maria'
- Error
- Evaluates to 'nina'
- Evaluates to 'pinta'
Correct

Answer:
Evaluates to 'nina'

What does the following code print?

```python
for i in range(len(lst)):
    print i, lst[i]
```

It is sometimes useful to iterate over the indices in a list rather than the list itself, because at any iteration of the loop, you have not only a value in the list, but also the index of a value in the list.

```
0 nina
1 pinta
2 santa maria
```

Correct

Answer:

Feedback:
0 nina
1 pinta
2 santa maria

What is the output of the following Python program?

```python
list1 = [1, 2, 3]
list2 = list1
list2.append(4)

print list1
print list2
```

```
[1, 2, 3, 4]
[1, 2, 3, 4]
```

Correct
Consider the following change to the code from question above:

```python
list1 = [1, 2, 3]
list2 = list1[:]
list2.append(4)
print list1
print list2
```

What is output of this program?

```
[1, 2, 3]
[1, 2, 3, 4]
```

Correct

Answer:

Feedback: Correct output:

```
[1, 2, 3]
[1, 2, 3, 4]
```

The change assigns list2 to a copy of list1. As a result, mutations to list2 do not affect the value of list1.

Which of the following expressions will return the **width of (number of columns in)** the grid? (check all that apply)

- [ ] `len(grid)`
- [ ] `len(grid[0][0])`
Which of the following expressions will return the height of (number of rows in) the grid? (check all that apply)

- len(grid)
- len(grid[0])
- len(grid[0][0])
- len(grid[1])

Correct
Answer:
len(grid)

After applying the blurring algorithm to this grid, what value would be stored in the first location in the first row of the new blurred grid (the location where the 1 is in the original grid)?

- 6
- 1
- 2
- 3

Correct
Answer:
1

Feedback:
Remember that we use truncating integer division and that locations outside of the grid are considered to be equal to zero when averaging.
Questions or Comments?
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