11.1 What will be displayed by the following code?

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

print(m[0][0])

A. 1

B. 2

C. 4

D. 7

A

Answer analysis:A

11.2 Assume m = [[1, 2, 3], [4, 5, 6], [7, 8, 9]], what are len(m)?

A. 0

B. 1

C. 2

D. 3

E. 4

D

Answer analysis:D

11.3 Assume m = [[1, 2, 3], [4, 5, 6], [7, 8, 9]], what are len(m[0])?

A. 0

B. 1

C. 2

D. 3

E. 4

D

Answer analysis:D

11.4 For m = [[x, x + 1, x + 2] for x in range(0, 3)], m is \_\_\_\_\_\_\_.

A. [[1, 2, 3], [4, 5, 6], [7, 8, 9]]

B. [[0, 1, 2], [1, 2, 3], [2, 3, 4]]

C. [1, 2, 3, 4, 5, 6, 7, 8, 9]

D. [0, 1, 2, 1, 2, 3, 2, 3, 4]

B

Answer analysis:B

11.5 For m = [[x, x + 1, x + 2] for x in range(1, 9, 3)], m is \_\_\_\_\_\_\_.

A. [[1, 2, 3], [4, 5, 6], [7, 8, 9]]

B. [[0, 1, 2], [1, 2, 3], [2, 3, 4]]

C. [1, 2, 3, 4, 5, 6, 7, 8, 9]

D. [0, 1, 2, 1, 2, 3, 2, 3, 4]

A

Answer analysis:A

11.6 How many elements are in m = [[x, y] for x in range(0, 4) for y in range(0, 4)]?

A. 8

B. 12

C. 16

D. 32

C

Answer analysis:C

11.7 Assume x = ((1, 2), (3, 4, 5), (5, 6, 5, 9)), what are len(x) are len(x[0])?

A. 2 and 1

B. 2 and 2

C. 3 and 2

D. 2 and 3

E. 3 and 3

C

Answer analysis:C

11.8 Assume x = [[1, 2], [3, 4, 5], [5, 6, 5, 9]], what are len(x[0]), len(x[1]), and len(x[2])?

A. 2, 3, and 3

B. 2, 3, and 4

C. 3, 3, and 3

D. 3, 3, and 4

E. 2, 2, and 2

B

Answer analysis:B

11.9 What will be displayed by the following program?

values = [[3, 4, 5, 1], [33, 6, 1, 2]]

v = values[0][0]

for row in range(0, len(values)):

for column in range(0, len(values[row])):

if v < values[row][column]:

v = values[row][column]

print(v)

A. 1

B. 3

C. 5

D. 6

E. 33

E

Answer analysis:E

11.10 What will be displayed by the following program?

values = [[3, 4, 5, 1], [33, 6, 1, 2]]

v = values[0][0]

for lst in values:

for element in lst:

if v > element:

v = element

print(v)

A. 1

B. 3

C. 5

D. 6

E. 33

A

Answer analysis:A

11.11 What will be displayed by the following program?

values = [[3, 4, 5, 1 ], [33, 6, 1, 2]]

for row in values:

row.sort()

for element in row:

print(element, end = " ")

print()

A. The program prints two rows 3 4 5 1 followed by 33 6 1 2

B. The program prints on row 3 4 5 1 33 6 1 2

C. The program prints two rows 3 4 5 1 followed by 33 6 1 2

D. The program prints two rows 1 3 4 5 followed by 1 2 6 33

E. The program prints one row 1 3 4 5 1 2 6 33

D

Answer analysis:D

11.12 What will be displayed by the following code?

matrix = [[1, 2, 3, 4],

[4, 5, 6, 7],

[8, 9, 10, 11],

[12, 13, 14, 15]]

for i in range(0, 4):

print(matrix[i][1], end = " ")

A. 1 2 3 4

B. 4 5 6 7

C. 1 3 8 12

D. 2 5 9 13

E. 3 6 10 14

D

Answer analysis:D

11.13 What will be displayed by the following code?

matrix = [[1, 2, 3, 4],

[4, 5, 6, 7],

[8, 9, 10, 11],

[12, 13, 14, 15]]

for i in range(0, 4):

print(matrix[1][i], end = " ")

A. 1 2 3 4

B. 4 5 6 7

C. 1 3 8 12

D. 2 5 9 13

E. 3 6 10 14

B

Answer analysis:B

11.14 What will be displayed by the following program?

def m(list):

v = list[0]

for e in list:

if v < e: v = e

return v

values = [[3, 4, 5, 1], [33, 6, 1, 2]]

for row in values:

print(m(row), end = " ")

A. 3 33

B. 1 1

C. 5 6

D. 5 33

E. 33 5

D

Answer analysis:D

11.15 What will be displayed by the following code?

data = [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]

print(data[1][0][0])

A. 1

B. 2

C. 4

D. 5

E. 6

D

Answer analysis:D

11.16 What will be displayed the following code?

data = [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]

def ttt(m):

v = m[0][0]

for row in m:

for element in row:

if v < element: v = element

return v

print(ttt(data[0]))

A. 1

B. 2

C. 4

D. 5

E. 6

C

Answer analysis:C

11.17 What will be displayed by the following code?

points = [[1, 2], [3, 1.5], [0.5, 0.5]]

points.sort()

print(points)

A. [[1, 2], [3, 1.5], [0.5, 0.5]]

B. [[3, 1.5], [1, 2], [0.5, 0.5]]

C. [[0.5, 0.5], [1, 2], [3, 1.5]]

D. [[0.5, 0.5], [3, 1.5], [1, 2]]

C

Answer analysis:C