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Question 1:

Guess the output of this program:

1. grades = [ [1, 2, 3, 4],
2. [5, 6],
3. [7, 8, 9,],
4. [[10, 11]],
5. ]
7. print(grades[1][1])

5

6

7

8

9

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Question 2:

Guess the output of this program:

1. grades = [ [1, 2, 3, 4],
2. [5, 6],
3. [7, 8, 9,],
4. [[10, 11]],
5. ]
7. print(grades[2][-1])

5

6

7

8

9

[7, 8, 9]

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Question 3:

Guess the output of this program:

1. grades = [ [1, 2, 3, 4],
2. [5, 6],
3. [7, 8, 9,],
4. [[10, 11]],
5. ]
7. print(grades[3][-1])

10

[10, 11]

[[10, 11]]

11

Error

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Question 4:

Guess the output of this program:

1. grades = [ [1, 2, 3, 4],
2. [5, 6],
3. [7, 8, 9,],
4. [[10, 11]],
5. ]
7. grades.pop(0)
8. grades[0] = grades[1:]
9. del grades[2:]
10. print(grades)

Error

[[[7, 8, 9], [[10, 11]]], [7, 8, 9]]

[[[7, 8, 9], [10, 11]], [7, 8, 9]]

[[[7, 8, 9], [[10, 11]]]]

[[7, 8, 9], [[10, 11]]]

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Question 5:

Guess the output of this program:

1. class Student:
2. pass
4. lst = [Student()] \* 5
5. print(lst[0] is lst[-1])

Error

True

False

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Question 6:

Guess the output of this program:

1. grades = [ [1, 5, 3, 4],
2. [1, 6],
3. [7],
4. [[10, 11]],
5. ]
6. grades.sort()
7. print(grades)

Error

[[1, 5, 3, 4], [1, 6], [7], [[10, 11]]]

[[1, 5, 3, 4], [1, 6], [7], [[10, 11]]]

TypeError: '<' not supported between instances of 'list' and 'int'

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Question 7:

Guess the output of this program:

1. grades = [ [1, 5, 3, 4],
2. [1, 6],
3. [7],
4. [10, 11],
5. ]
6. grades.sort(reverse=True)
7. print(grades)

[[10, 11], [7], [1, 6], [1, 5, 3, 4]]

[[1, 5, 3, 4], [1, 6], [7], [10, 11]]

[[10, 11], [7],  [1, 5, 3, 4], [1, 6]]

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Question 8:

Guess the output of this program:

1. lst\_of\_lsts = [
2. [1, 2, 3],
3. [4, 5, 6],
4. [7, 8, 9],
5. ]
7. for i in range(len(lst\_of\_lsts)):
8. for j in range(len(lst\_of\_lsts[i])):
9. lst\_of\_lsts[i][j] = lst\_of\_lsts[j][i]
11. print(lst\_of\_lsts)

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

[[1, 4, 7], [4, 5, 8], [7, 8, 9]]

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Question 1:

Guess the output of this program:

1. mat = [[1, 2, 3, 4], [5, 6, 7, 8], [9, 10, 11, 12]]
2. print(list(zip(\*mat)))

Do you know the math name of the above operation?

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

[(1, 5, 9), (2, 6, 10), (3, 7, 11), (4, 8, 12)]

[(4, 8, 12), (3, 7, 11), (2, 6, 10), (1, 5, 9)]

Error

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