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Question 1:

Guess the output of this program:

1. for pos in range(0, 12, 3):
2. print(pos, end=' ')

0 3 6 9 12

0 3 6 9

0 1 2 3 4 5 6 7 8 9 10 11

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Question 2:

Guess the output of this program:

1. for pos in range(-10, -20, -3):
2. print(pos, end=' ')

-10 -13 -16 -19

-10 -13 -16

Empty Output

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Question 3:

For input -127532, the output is:

1. num = int(input())
2. mystr = str(abs(num))
3. sum = 0
5. for char in mystr:
6. sum += int(char)
7. print(sum)

17

20

Error

12

25

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Question 4:

For input -127532 this program outputs:

1. num = int(input())
2. mystr = str(abs(num))
3. pos = 4
5. for idx, char in enumerate(mystr):
6. if idx == len(mystr) - pos:
7. print(char)
8. break

1

2

7 (default from start 0)

5

3

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Question 5:

Guess the output of this program:

1. n = 6
2. a, b = 0, 1
4. for sep in range(n):
5. c = a+b
6. a = b
7. b = c
9. print(c)

8

13

21

34

Compute Fibonacci sequence

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Question 6:

Guess the output of this program:

1. steps = 0
2. mystr = 'hello123uj'
4. for char in mystr:
5. if '0' <= char <= '9':
6. break
7. steps += 1
9. print(steps)

Error

3

4

5

6

7

8

It stops once find a digit in a string. Observe the condition to check a digit

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Question 7:

Guess the output of this program:

1. sum = 0
2. for pos in range(3, 6, 2):
3. sum += pos
4. print(pos)

4

5

6

7

8

9

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Question 8:

Guess the output of this program:

1. for pos in range(3, 6, 2):
2. pos \*= 10
3. print(pos)

Error

Undefined Behaviour

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Question 9:

These 2 blocks are the same logic?

1. for i in range(20):
2. status = i % 3 == 0 or i % 5 == 0 or i % 7 == 0
3. if status:
4. print(i)
5. for i in range(20):
6. status = i % 3 != 0 and i % 5 != 0 and i % 7 != 0
7. if not status:
8. print(i)

True

False

not (i % 3 == 0 or i % 5 == 0 or i % 7 == 0) ==> i % 3 != 0 and i % 5 != 0 and i % 7 != 0. That is: we not every term and switch every or to and. If you can't get it, skip it.

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