

Question 1 (1 point)

If the **debug** button (red bug) is clicked for this program in Wing, and then the **step over** button is clicked, what will be the line number of the next line of code the debugger will highlight to be executed?

Provide your answer as the **line number only** using the line numbers displayed on the left side of the image.

```
1 def sum(n:int) -> int:
2     """
3     sums of the values from 1 to n inclusive and returns sum
4     Precondition: n>0
5     >>> sum(1)
6     1
7     >>> sum(4)
8     10
9     """
10    sum = 0
11    for num in range(1,n+1):
12        sum += num
13    return sum
14
15 def print_sum(num:int) -> None:
16     """
17     sums the values 1 to n and prints message to the screen
18     >>> print_sum(1)
19     sum of 1 to 1 : 1
20     >>> print_sum(5)
21     sum of 1 to 5 : 15
22     """
23    if num<1:
24        print('not a valid input')
25    else:
26        result = sum(num)
27        print('sum of 1 to', num, ':', result)
28
29
30 n = 0
31 ● print_sum(n)
32 n = 5
33 print_sum(n)
34
```

**Question 2** (1 point)

If the **debug** button (red bug) is clicked for this program in Wing, and then the **step into** button is clicked, what will be the line number of the next line of code the debugger will highlight to be executed?

Provide your answer as the **line number only** using the line numbers displayed on the left side of the image.

```
1 def sum(n:int) -> int:
2     """
3     sums of the values from 1 to n inclusive and returns sum
4     Precondition: n>0
5     >>> sum(1)
6     1
7     >>> sum(4)
8     10
9     """
10    sum = 0
11    for num in range(1,n+1):
12        sum += num
13    return sum
14
15 def print_sum(num:int) -> None:
16     """
17     sums the values 1 to n and prints message to the screen
18     >>> print_sum(1)
19     sum of 1 to 1 : 1
20     >>> print_sum(5)
21     sum of 1 to 5 : 15
22     """
23    if num<1:
24        print('not a valid input')
25    else:
26        result = sum(num)
27        print('sum of 1 to', num, ':', result)
28
29
30 n = 0
31 print_sum(n)
32 n = 5
33 print_sum(n)
34
```



Question 3 (1 point)

If the **debug** button (red bug) is clicked for this program in Wing, and then the **debug** button (red bug) is immediately clicked again, what will be the line number of the next line of code the debugger will highlight?

Provide your answer as the **line number only** using the line numbers displayed on the left side of the image.

```
1 def sum(n:int) -> int:
2     """
3     sums of the values from 1 to n inclusive and returns sum
4     Precondition: n>0
5     >>> sum(1)
6     1
7     >>> sum(4)
8     10
9     """
10    sum = 0
11    for num in range(1,n+1):
12        sum += num
13    return sum
14
15 def print_sum(num:int) -> None:
16     """
17     sums the values 1 to n and prints message to the screen
18     >>> print_sum(1)
19     sum of 1 to 1 : 1
20     >>> print_sum(5)
21     sum of 1 to 5 : 15
22     """
23    if num<1:
24        print('not a valid input')
25    else:
26        result = sum(num)
27        print('sum of 1 to', num, ':', result)
28
29
30 n = 0
31 print_sum(n)
32 n = 5
33 print_sum(n)
34
```



Question 4 (1 point)

Assuming no preceding code has been executed, what is the output of the following code?

```
for outer in range(3):
    for inner in range(2):
        print(inner, end=' ')
        print(outer)
```

- 0 1 0
0 1 1
0 1 2
- 0 0
1 0
2 0
0 1
1 1
2 1
0 2
1 2
2 2
0 3
1 3
2 3
- 0 1 2 0 1 2 0 1 2 0 1 2 3
- 0 0
1 0
0 1
1 1
0 2
1 2
- an error will be generated
- 0 1 2 0
0 1 2 1
0 1 2 2
0 1 2 3
- no output
- 0 1 0 1 0 1 2

Question 5 (1 point)

Assuming no preceding code has been executed, what is the output of the following code?

```
for outer in range(3):
    for inner in range(2):
        print(inner, end=' ')
    print(outer)
```

an error will be generated

0 1 0 1 0 1 2

no output

0 0
1 0
0 1
1 1
0 2
1 2

0 1 2 0
0 1 2 1
0 1 2 2
0 1 2 3

0 1 0
0 1 1
0 1 2

0 0
1 0
2 0
0 1
1 1
2 1
0 2
1 2
2 2
0 3
1 3
2 3

0 1 2 0 1 2 0 1 2 0 1 2 3

Question 6 (1 point)

Assuming no preceding code has been executed, what is the output of the following code?

```
for outer in range(3):
    for inner in range(2):
        print(inner, end=' ')
print(outer)
```

- 0 1 0 1 0 1 2
- 0 1 2 0
0 1 2 1
0 1 2 2
0 1 2 3
- an error will be generated
- 0 0
1 0
0 1
1 1
0 2
1 2
- 0 1 2 0 1 2 0 1 2 0 1 2 3
- 0 0
1 0
2 0
0 1
1 1
2 1
0 2
1 2
2 2
0 3
1 3
2 3
- no output
- 0 1 0
0 1 1
0 1 2

Question 7 (1 point)

Assuming no preceding code has been executed, what is the output of the following code?

```
for outer in range(0):  
    for inner in range(2):  
        print(inner, end=' ')  
print(outer)
```

- 0 1 2 0 1 2 0 1 2 0 1 2 3
- 0 0
1 0
0 1
1 1
0 2
1 2
- 0 1 0
0 1 1
0 1 2
- an error will be generated
- 0 0
1 0
2 0
0 1
1 1
2 1
0 2
1 2
2 2
0 3
1 3
2 3
- 0 1 0 1 0 1 2
- no output
- 0 1 2 0
0 1 2 1
0 1 2 2
0 1 2 3

Question 8 (1 point)

Assuming no preceding code has been executed, what is the output of the following code?

```
for outer in range(3):
    for inner in range(2):
        x = inner + outer
        print(x, end=' ')
```

**Question 9** (1 point)

Assuming no preceding code has been executed, what is the output of the following code?

```
for outer in range(3):
    for inner in range(outer):
        print(outer, inner, sep=':', end=' ')
```

**Question 10** (1 point)

Assuming no preceding code has been executed, what is the output of the following code?

```
x = 0
for outer in range(3):
```

```
for inner in range(2):  
    x += 1  
  
print(x)
```

**Question 11** (1 point)

Assuming no preceding code has been executed, what is the output of the following code?

```
x = 0  
for outer in range(5):  
    for inner in range(outer):  
        x += 1  
  
print(x)
```



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