

What is the output of each of the following Python commands?

1.

```
x = [1, 2, 3, 4]
for i in range(len(x)-1):
    y = x[i] + x[i+1]
    print(y)
```

(a) 3

5

7

(b) 3

6

10

(c) 1, 2

2, 3

3, 4

(d) Error

2.

```
my_sum = 0
for i in range(1, 200-1):
    my_sum+=i
print(my_sum)
```

(a) Sum of numbers 1-200 (inclusive)

(b) Sum of numbers 1-199 (inclusive)

(c) Sum of numbers 1-198 (inclusive)

(d) Sum of numbers 0-199 (inclusive)

3.

```
x = 1
y = []
while x < 6:
    y.append(x*20)
    x += 1
print(y)
```

- (a) [1, 2, 3, 4, 5]
- (b) [20, 20, 20, 20, 20]
- (c) [20, 40, 60, 80, 100]
- (d) [100, 100, 100, 100, 100]

4.

```
for i in range(2):
    for j in range(2):
        print('pizza')
    print(i+5)
```

(a) pizza
5
pizza
6

(b) pizza
pizza
5
pizza
pizza
6

(c) pizza
5
pizza
6

(d) pizza pizza
5 6

5. Circle the error:

```
x = ['a', 'b', 4, 55, 'math']  
for thing in x:  
    y = 'my' + thing  
    print(y)
```

6. What is the type of value returned by the input() function?

- (a) String
- (b) Integer
- (c) Float
- (d) Boolean

7. What is the output of the following program?

```
x = '1a2b3c4d5e6'  
for i in range(0, len(x)+1, 2):  
    y = 9 * int(x[i])  
    print(y)
```
