1. def mystery(s):
   new_s = ""
   for c in s:
      new_s = c + new_s
   return new_s

What is a good description of this function?

A  Return a copy of `s`
B  Return the reverse of `s`
C  Return a string consisting of only the final character of `s`
D  Return a string consisting of only the first character of `s`
E  I don't know

2. def mystery(s):
   new_s = ""
   for c in s:
      new_s = c + new_s
   return new_s

Since we build up the new string, new_s, by prepending, we reverse the string

What is a good description of this function?

A  Return a copy of `s`
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D  Return a string consisting of only the first character of `s`
E  I don't know

3. What is the value of `val` after this code executes?

   val = 0
   for i in 'ab':
      for j in 'cd':
         val += 1

A  1
B  2
C  4
D  8
E  16
4. What is the value of `val` after this code executes?

```python
val = 0
for i in 'ab':
    for j in 'cd':
        val += 1
```

A 1
B 2
C 4
D 8
E 16

There are 2 characters, so each loop will have 2 iterations, and thus we will add “1” 4 times (since loops are nested)

5. What is the value of val after this code executes?

```python
val = 0
for i in 'abc':
    for j in 'def':
        val += 1
```

A 1
B 3
C 6
D 9
E 27

There are 3 characters, so each loop will have 3 iterations, and thus we will add “1” 9 times (since loops are nested)

6. What is the value of val after this code executes?

```python
val = 0
for i in 'abc':
    for j in 'def':
        val += 1
```

There are 3 characters, so each loop will have 3 iterations, and thus we will add “1” 9 times (since loops are nested)