

Name	
Date	

CS150 L05: String iteration - solution

Score			

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

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

- \bigcirc 1
- B) 2
- **(c)** 4
- 8
- (E) 16

Answer: B

Since we build up the new string new_s by prepending (adding new characters to the front), we reverse the string

Answer: C

There are 2 characters in each of 'ab' and 'cd', so each loop will have 2 iterations, and thus we will add "1" to val 4 times (since the loops are nested)

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

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

- (A) 1
- **(B)** 3
- **(c)** 6
- **(D)** 9
- **(E**) 27

Answer: D

There are 3 characters in each of 'abc' and 'def', so each loop will have 3 iterations, and thus we will add "1" to val 9 times (since the loops are nested)