## CS150 LO5: String iteration solution

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?

$$
\begin{aligned}
& \text { val = } 0 \\
& \text { for in 'ab': } \\
& \text { for } \mathrm{j} \text { in 'cd': } \\
& \text { val = val + } 1
\end{aligned}
$$

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)
(A) 1
(B) 2
(C) 4
(D) 8
(E) 16
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)

