CS 50 – Spring 2026
Lecture 09

1. What gets printed when the following program gets run?

```
def f2(s7):
    s7 = s7 + 'd' + s5
    print("f2:", s7)

def f1(s4):
    s1 = 'c'
    s5 = s2 + s4
    print("f1:", s1)
    print("f1:", s5)
    return s1+s5

s1 = 'a'
s2 = 'b'
print(s1)
s3 = f1(s1)
print(s1, s2, s3)
print(s5)
f2(s2)
```

2. Write a set of test cases for the following function:

```
def square_neg2(lst):
    new_list = []
    for number in lst:
        if number < 0: # if negative
            new_list.append(number**2)
        else:
            new_list.append(number)

    return new_list
```

3. Fix the following buggy program:

```python
def sum_even(num1, num2): # WARNING: Buggy code!!!
    """
    Computes the sum of the even numbers between <start>
    and <end> (inclusive).
    :param start: (int) one end of range
    :param end: (int) other end of range
    :return: (int) sum of evens
    """
    sum_even = 0

    i = num1
    while i < num2:

        if i % 2 != 0: # if even
            sum_even = sum_even + i

        i = i + 1 # increment counter

        return sum_even # return sum of even numbers
```