def get_word(prompt):
    word = input("Enter " + prompt + ": ")
    return word

def display_madlib(name, animal, colour, compare_thing, go_word):
    stars = "*" * 35
    print(stars)
    print(name + " had a little " + animal + ",")
    print("its fleece was " + colour + " as " + compare_thing + ".")
    print("Everywhere that " + name + " went,")
    print("the " + animal + " was sure to " + go_word + ".")
    print(stars)

def carry_out_madlib():
    prompt_name = "Enter a name"
    prompt_animal = "Enter an animal"
    prompt_colour = "Enter a colour"
    prompt_thing = "Enter a plural noun (thing)"
    prompt_action = "Enter an action"
    #Complete this code
carry_out_madlib()
def function1():
    print("A")
    function2(3)
    print("B")

def function2(num):
    print("C")
    function4(num - 1, num - 2)
    print("D")

def function3(number):
    print("E", number)

def function4(num1, num2):
    print("F")
    function3(num1 + num2)

def main():
    print("G")
    function1()
Complete the code trace of the program and show the output.

```python
def first(a):
    b = 3
    print("1.", a)
    return second(a * b) + b

def second(a):
    print("2.", a)
    return a % 4

def main():
    a = 5
    b = first(a)
    print("3.", b)
    b = second(b)
    print("4.", b)

main()
```

Expected output:
1. 5
2. 5
3. 16
4. 2