

Show the output of the following code segments. If an error occurs, print "error" as your answer & explain. **Draw diagrams or show scratchwork in the margins or on separate paper for full-credit.**

1.  
Bug flik = new Bug(Color.RED, 90, 1, 3); // color, direction, row, column  
Bug atta = flik;  
flik.setDirection(180);  
System.out.println(atta.getDirection()); // output: \_\_\_\_\_

2.  
Bug flik = new Bug(Color.RED, 90, 1, 3);  
Bug atta = flik;  
atta = null;  
System.out.print(flik.getColor());  
atta = new Bug(Color.BLUE, 270, 3, 4);  
flik = atta;  
atta = null;  
System.out.println(" " + flik.getColor()); // full output: \_\_\_\_\_

3.  
Bug flik = new Bug(); // default values: RED, 0, 0, 0  
Bug atta = flik;  
flik.setColor(Color.BLUE);  
flik = null;  
Bug atta = new Bug(Color.RED, 0, 0, 0);  
System.out.println(atta.getColor()); // output: \_\_\_\_\_

4.  
String food1 = "green eggs"; // String objects are immutable  
String food2 = "ham";  
food1 = food2;  
food2 = "turkey";  
System.out.println(food1 + " " + food2); // output: \_\_\_\_\_

5.  
String food1 = "pumpernickel";  
String food2 = food1;  
food1 = food1.substring(5);  
System.out.println(food1 + " " + food2); // output: \_\_\_\_\_

6.  
int num1 = 10; // int is a primitive data type  
int num2 = num1;  
num1 = 20;  
System.out.println(num1 + " " + num2); // output: \_\_\_\_\_

7.  
double x1 = 3.14; // double is a primitive data type  
double x2 = 0;  
x1 = null;  
System.out.println(x1 + " " + x2); // output: \_\_\_\_\_