

**Short Answer:**

1. What is the mathematical formula for distance with regard to color? Use your formula to calculate `distance(makeColor(0,26,18),makeColor(0,20,10))`.

**Code Tracing:**

Take a look at the functions listed on the left. What would print if you run them according to their calls in the second column? Write your answer in the blank space provided.

<pre>def traceMe(a,b):     for i in range(a):         print i*b</pre>	<pre>traceMe(5,3)</pre>	
<pre>def another(num):     for i in range(num):         s = num         for z in range(i):             s = s*10 + num         print s</pre>	<pre>another(7)</pre>	
<pre>def traceIt(a, b):     a = b     for x in range(1,a):         b = b + 1         print b     print a, b</pre>	<pre>traceIt(2,4)</pre>	

## Refining Your Code:

The following function works, but has a lot of unnecessary information in it! Try to rewrite this code in as few lines as possible.

```
def swapRedAndBlue(picture):
    for pixel in getPixels(picture):
        r = getRed(pixel)
        g = getGreen(pixel)
        b = getBlue(pixel)

        newRed = b
        newGreen = g
        newBlue = r

        setRed(pixel, newRed)
        setGreen(pixel, newGreen)
        setBlue(pixel, newBlue)
```