

While Loop Warm-Up

Do this in a file called `while.py`. When I ask you to explain code, just write a comment for it. I'll ask to see it when I get back.

What do the following functions do? Don't just translate every statement into English. Tell me how the result relates to the inputs. For example, "this program draws a square" is much better than "goes forward, turns right, goes forward, turns right..."

Don't just copy it into Python! Go through the code line by line to figure it out.

```
def mystery(n):
    count = 0
    while(n >= 1):
        n = n / 2
        count = count + 1
    print count

def mystery2():
    count = 100
    while (count < 100):
        count = count + 1
    print(count)
```

Write a function called `ice_cream` that asks the user for an ice cream flavor and a number of scoops until they ask for at least three scoops of chocolate ice cream. You'll need to use a complex conditional. Be sure to prompt the user for both values each time around the loop.

Write a function called `many_circles` that draws Turtle Graphics circles (say, in a line, or as a pinwheel) over and over again until the user types "stop!"