22C:16 Quiz 1
Date: Jan 24th, 2012

1. Consider the following program

```
number = int(raw_input("Enter a number: "))
count = 0
while count < number:
        print count*count
        count = count + 2
```

   (a) What output does it produce, given input 10? Use the back of the sheet, if necessary.

   ```
   0
   4
   16
   36
   64
   ```

   (b) Modify the program by swapping the two statements inside the body of the `while` loop. What output does it produce now, given input 10? Use the back of the sheet, if necessary.

   ```
   4
   16
   36
   64
   100
   ```

2. For each expression below, specify its type and value. For expression (6), suppose that the user types 10 + 20 in response to the prompt. For expression (7), suppose that the math module has been imported.

	Expression	Value	Type
1	171/5	34	int
2	170/(2*5.0)	17.0	float
3	float(17/2)	8.0	float
4	str(17/2.0)	"8.5"	string
5	"hello" + "100"	"hello100"	string
6	"0 + " + raw_input("number?")	"0 + 10 + 20"	string
7	str(math.sqrt(9))	"3.0"	string
8	float(1) + 1	2.0	float
9	int("33")	33	int
10	float("300." + "100")	300.1	float