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

1. Consider the following program

```
number = int(raw_input("Enter a number: "))
while number > 0:
        print number % 10
        number = number / 10
```

  (a) What output does it produce, given input 3179?

```
9
7
1
3
```

  (b) Describe in one sentence, what the program does, in general.

```
This program prompts a number from the user (number), while number is greater
than 0, the program prints the right-most digit of number by calculating
the remainder (using modulus) of number divided by 10, and then removes
the right-most digit by using integer division by 10.
```

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	Type	Value
1	17/2		
		8	int
2	17/2.0		
		8.5	float
3	float(17/2)		
		8.0	float
4	str(17/2.0)		
		"8.5"	string
5	"hello" + "100"		
		"hello100"	string
6	raw_input("number?")		
		"10 + 20"	string
7	math.sqrt(9)		
		3.0	float
8	float(1) + 1		
		2.0	float
9	int("337")		
		337	int
10	float("300." + "100")		
		300.1	float