22C:16 Quiz 4
Date: Feb 14th, 2012

1. Write down the value and type of each of these expressions. Assume that `x` is a variable of type `int` and has value 25. Also assume that the `math` module has been imported before these expressions are executed.

   (a) `math.ceil(2.25)/math.floor(1.5)+200L*5`

   1003.0

   (b) `(-1**2)**2%3-1`

   0

   (c) `30 > x or 100/0 != "hello"`

   True

   (d) `float(len("expression"))/(5 + 15/len(str(100+15)))`

   1.0

   (e) `2-len(str(math.trunc(678.54)))**2`

   -7

Please turn the page over for the second problem.

1

2. Write down the output produced by the following program.

```
x = 10
while x < 20:
        y = x + 4
        while y > x:
                if ((x + y) % 5 == 0):
                        print x + y
                y = y - 2

        x = x + 1
```

30
30
40
40