

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

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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`

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

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

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

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

**Please turn the page over for the second problem.**

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
```