

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`
203.0

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

(c) `20 > x and 100/0 != "hello"`
False

(d) `len("expression")/10 + 15/len(str(10+15))`
8

(e) `len(str(math.trunc(678.54)))*2`
9

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 + 10
    while y > x:
        print x + y
        y = y - 2*y

    x = x + 3
```

30
36
42
48