

22C:16 (CS:1210) Quiz 3

You have 20 minutes to complete this quiz.

1. Suppose that variable `x` has value 7 and variable `y` has value 8. Evaluate each of the following boolean expressions.
 - (a) `(x >= y) and (x < 0)`
 - (b) `((x < 8) and (8 > y))`
 - (c) `not(not((y % x) != 0))`
 - (d) `((x != 18) or (y != 8))`
 - (e) `(x == 8) or ((x < 10) or (not (x > 15)))`

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

```
n = 10
while n > 2:
    m = 2
    while m < 12:
        print m * n
        m = m + n
    print "----"
    n = n - 3
```

3. Rewrite the following program so that it does exactly the same thing, but does not use a `break`. The program you write should contain a `while`-loop, have the same variables, have roughly the same length, etc., but it should not have a `break` statement. It should be similar to the one you see below, although you may need to recast things a bit and move some things around.

```
total = 0
while True:
    n = int(raw_input("Enter a positive integer: "))
    if (n%2 == 0) or (n < 0):
        print "The total is:", total
        break

    total = total + n
```