

## 22C:16 (CS:1210) Quiz 3

---

You have 20 minutes to complete this quiz.

1. Suppose that variable  $x$  has value 11 and variable  $y$  has value 6. Evaluate each of the following boolean expressions.
  - (a)  $(x/y < 2)$  and  $(x > 0)$
  - (b)  $((x > 8)$  and  $(8 < y))$
  - (c)  $\text{not}(\text{not}((x \% y) \neq 5))$
  - (d)  $((x \neq 11)$  or  $(y \neq 11))$
  - (e)  $(x > 20)$  or  $((y < 10)$  or  $(\text{not } (x == 11)))$

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

```
n = 3
while n < 11:
    m = 1
    while m < 8:
        print m * n
        m = m + n
    print "----"
    n = n + 2
```

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.

```
product = 1
while True:
    n = int(raw_input("Enter a positive integer: "))
    if (n >= 15) or (n < 0):
        print "The product is:", product
        break

    product = product * n
```