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

You have 20 minutes to complete this quiz.

1. Suppose that variable $x$ has value 2 and variable $y$ has value 5. Evaluate each of the following boolean expressions.
(a) $(\operatorname{not}(x==y)$ and $(y<x))$
(b) $((x<3)$ and $(3<=y))$
(c) $\operatorname{not}(\operatorname{not}((y \% 3)!=x))$
(d) $((x \quad!=5)$ or $(y!=5))$
(e) $(x>=10)$ or $((x<4)$ or $(\operatorname{not}(x>6)))$
2. Write down the output produced by the following program:
```
n = 2
while n <= 9:
        m = 10
        while m > 2:
            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 program 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%2 != 0) or ( }n<1\mathrm{ < :
        print "The product is:", product
        break
    product = product * n
```

