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) (not(x == y) and (y < x))
 (b) ((x < 3) and (3 <= y))
 (c) not(not((y % 3) != x))
 (d) ((x != 5) or (y != 5))
 (e) (x >= 10) or ((x < 4) or (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):
        print "The product is:", product
        break
    product = product * n</pre>
```