You have 20 minutes to complete this quiz.

- 1. Suppose that variable x has value 18 and variable y has value 13. Evaluate each of the following boolean expressions.
 - (a) (x != y) and (x < y)
 (b) ((x < 15) and (15 > y))
 (c) not(not((x % y) != 4))
 (d) ((x != 18) or (y != 13))
 (e) (x == 10) or ((x < 10) or (not (x > 20)))
- 2. Write down the output produced by the following program:

n = 2
while n <= 6:
 m = 1
 while m <= 10:
 print m * n
 m = m + n
 print "---"
 n = n + 2</pre>

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.

```
sum = 0
while True:
    n = int(raw_input("Enter a positive integer: "))
    if (n < 0) or (n > 100):
        print "The sum is:", sum
        break
sum = sum + n
```