Quiz 1

22C:80 Programming for Informatics
Monday, Feb. 16, 2009

Notes: The quiz is worth **6 points total**. To get partial credit you must show your work.

1. What is the result of executing `program1(3, 2)`? What is the result of executing `program1(25, 18)`?

```
def program1(num1, num2):
  result = 0
  for i in range(1, num1 + 1):
    for j in range(1, num2 + 1):
      result = result + 2
  printNow(result)
```

2. What is the result of executing `program2(16)`?

```
def program2(n):
  result = 0
  while (n > 1):
    result = result + 1
    n = n/2
  printNow(result)
```

Turn the page over for Problem 3.

3. What is the result of executing `test3(2)`?

```
def test3helper(n):
  temp = n*n
  printNow(n)
  printNow(temp)
  return(temp+3)

def test3(n):
  while (n > 0):
    temp = test3helper(n+1)
    printNow(n)
    printNow(temp)
    n = n - 2
```