

Quiz 1

22C:80 Programming for Informatics

Tuesday, Feb. 17, 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, 20)`?

```
def program1(num1, num2):
    result = 0
    for i in range(1, num1 + 1):
        for j in range(1, num2 + 1):
            result = result + 3
    printNow(result)
```

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

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

Turn the page over for Problem 3.

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

```
def test3helper(n):
    temp = n*n
    printNow(n)
    printNow(temp)
    return(temp+4)

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