

22C:16 (CS:1210) Quiz 2

You have 20 minutes to complete this quiz.

1. Write down the output produced by the following program:

```
n = 6
m = 3
while m <= n:
    if (m * n) % 4 == 0:
        print "Line 1", n, m
        m = m + 1
    else:
        print "Line 2", n, m
        n = n + 1
    m = m + 2
```

2. Write a program that prompts the user for a positive integer, say N , and prints all nonnegative powers of 3 that are less than N . By “nonnegative powers” we mean $3^0, 3^1, 3^2, \dots$. For example, if the user inputs 50, then your program should output

```
1
3
9
27
```

Note that the next power of 3, i.e., 3^4 equals 81.

3. For each expression below, specify its type and value.

	Expression	Type	Value
1	<code>float(27/3)</code>		
2	<code>float(str(25%3) + str(5/2))</code>		
3	<code>17/10 != (17.0/10.0)</code>		
4	<code>int(17/2.0)</code>		
5	<code>"pavan" == ("pav" + "van")</code>		
6	<code>"100.0" != 100</code>		
7	<code>float(1.5) + int(1.5)</code>		
8	<code>float("300." + "00")/100</code>		
9	<code>"hello" != " hello "</code>		
10	<code>True != False</code>		
