

## CS101/Sample Quiz #2/

1. Circle the valid C++ identifiers in the following list (each line contains one possible identifier):

abc123  
a\_b\_c  
a2  
2a  
a Very Long Identifier  
aVeryLongIdentifier  
int

2. For each of the following arithmetic expressions, give its value and check off whether the value is integer or floating-point. The first row is filled in for you:

Expression	Value	Integer	Floating Point
1+2	3	✓	
1+2.0			
13 / 2			
13 % 2			
13 / 2.0			
4+5*6			

3. Give the values of the integer variables n and m after the following piece of code has executed:

```
int n, m;  
n=2;  
m=2;  
n=n+m;  
m=m+1;
```

n	
m	

4. Consider the following file text file named lots.dat (the file is in the current directory)

```
2 8
5 6
```

What is the output of the following program?

```
#include<iostream.h>
#include<fstream.h>

void main(){

    double width1, length1, width2, length2, area1, area2;
    ifstream infile("lots.dat");

    infile >> width1 >> length1;
    area1 = width1 * length1;
    cout << area1 << endl;

    infile >> width2 >> length2;
    area2 = width2 * length2;
    cout << area2 << endl;

    infile.close();
}
```

Output:

Answers:

1. The first, second, third, and sixth are valid.
2.
  - row 2: 3, floating point
  - row 3: 6, integer
  - row 4: 1, integer
  - row 5: 6.5, floating point
  - row 6: 34, integer
3.  $n = 4$ ,  $m = 3$ .
4. Output:  
16  
30