

CS 149D  
Recitation, April 3, 2006  
**C++ Quiz**

Name \_\_\_\_\_

**Quiz:** Make some simple changes to an existing program fragment.

```
...
char Letter;
int LetterCt=0;
int XCt=0;
double PerCent;
fstream InFile;

// Count the number of x's in a file.
InFile.open( "letters.txt", ios::in );
while ( InFile >> Letter ) {
    if ( Letter == 'x' )
        XCt++;
    LetterCt++;
}

// Print counts and percentage
cout << LetterCt << " Letters read." << endl;
cout << XCt << " x's found." << endl;
PerCent = XCt/LetterCt * 100;
cout << setprecision( 5 ) << setw( 4 ) << PerCent <<
    " percent x's" << endl;
...
```

1. Change the above code fragment so that it counts the occurrences of the letter y rather than the letter x. Make appropriate changes to variable names, etc. to reflect this change.
2. Change the code so that it reads from the Windows file "LetterData.txt" rather than the file "letters.txt".
3. Change the code so that the value printed for the variable `PerCent` is nonzero.
4. Change the code so that `PerCent` is printed with 3 significant digits.