

Lab on enums CPS 171 J. Remen

This lab is to give you practice using enums.

Copy the following files on the t: drive and put them on your H: drive.

t:\shared\class\cps\cps171\labs\enumslab.cpp
t:\shared\class\cps\cps171\labs\ReFormat.dat

The .cpp file contains a basic outline of a program which you will modify using the data file provided. A hard copy of the file is given below. The comments describe what it is supposed to do but it does not compile at the present time.

You must replace the ***** in the function with an appropriate value from the enum and write the code for the switch statement in main.

Hand in a listing of the program file and the output file.

```
// Modified from the book - A laboratory course in C++ by Nell Dale
// by Janet Remen Oct 2000 as a lab for CPS 171.
// Program enumslab.cpp reads characters from file DataIn and
// writes them to DataOut with the following changes:
//     all letters are converted to uppercase, digits are
//     unchanged, and all other characters except blanks and
//     newline markers are removed.
```

```
#include <iostream>
#include <cctype>
#include <fstream>
using namespace std;
```

```
enum CharType {LO_CASE, UP_CASE, DIGIT, BLANK_NEWLINE, OTHER};
```

```
CharType kindOfChar(char);      // function prototype
                                // Gets the enumerator equivalent to its character input.
```

```
int main ()
{
    ifstream dataIn;
    ofstream dataOut;
    char character;
    CharType kind;

    dataIn.open("ReFormat.dat");
    dataOut.open("DataOut.txt");
```

