

Exercise #3
Marks: 10

Dated: 10/8/2012

Using LEX to do the following and test it with the test case given below:

- a. Eliminate all the comment statements. (2)
- b. Identify “{” and replace with begin#i where i represent the ith occurrence of “{”. Similarly identify “}” replace with end#i where i represent the ith occurrence of “}”. (4)
- c. Print all strings within Double quotes in Upper case. (4)

Test case

```
// Borland C++ - (C) Copyright 1991 by Borland International
/* DCOPY.CPP -- Example from Getting Started */
/* DCOPY source-file destination-file          *
 * copies existing source-file to destination-file *
 * If latter exists, it is overwritten; if it does not *
 * exist, DCOPY will create it if possible          *
 */
#include <iostream.h>
#include <process.h>    // for exit()
#include <fstream.h>    // for ifstream, ofstream
main(int argc, char* argv[]) // access command-line arguments
{
    char ch;
    if (argc != 3)          // test number of arguments
    {
        cerr << "USAGE: dcopy file1 file2\n";
        exit(-1);
    }
    ifstream source;        // declare input and output streams
    ofstream dest;

    source.open(argv[1],ios::nocreate); // source file must be there
    if (!source)
    {
        cerr << "Cannot open source file " << argv[1] <<
            " for input\n";
        exit(-1);
    }
    dest.open(argv[2]);      // dest file will be created if not found
                           // or cleared/overwritten if found
    if (!dest)
    {
        cerr << "Cannot open destination file " << argv[2] <<
            " for output\n";
        exit(-1);
    }
    while (dest && source.get(ch)) dest.put(ch);
    cout << "DCOPY completed\n";
    source.close();          // close both streams
    dest.close();
}
```