//Program by Patrick Melanson, ICS4U

#include <iostream>

#include <fstream>

#include <ctype.h>

using namespace std;

**int** main() {

//initialization

**int** i = 0, n = 0;

**char** cipher[7], plaintext[61], ciphertext[61];

**char** encrypted;

ifstream inFile;

inFile.open ("message.txt");

inFile.getline (cipher, 7); //read cipher

cout << cipher << endl;

inFile.getline (plaintext, 61); //read plaintext

cout << plaintext << endl;

**do** //encrypts message using cipher, into ciphertext[]

**if** (isupper (plaintext[i])) { //checks if the char is an uppercase letter

encrypted = plaintext[i] + cipher[n%strlen(cipher)] - 'A'; //encrypting

**while** (encrypted > 'Z') encrypted -= 26; //deals with out-of-ranges

ciphertext[n++] = encrypted;

}

**while** (plaintext[i++]);

ciphertext[n] = '\0'; //finishes up with string

cout << "\n\nCiphertext: " << ciphertext << endl; //displays encrypted message

inFile.close(), inFile.clear(); //finishes up with file

system("pause");

**return** 0;

}