//Program to create a file called cplusad.dat that is identical to the file

//cad.dat, except that all occurrences of 'C' are replaced by "C++".

//Assumes that the uppercase letter 'C' does not occur in cad.dat except

//as the name of the C programming language.

#include <fstream>

#include <iostream>

#include <cstdlib>

using namespace std;

void add\_plus\_plus(ifstream& in\_stream, ofstream& out\_stream);

//Precondition: in\_stream has been connected to an input file with open.

//out\_stream has been connected to an output file with open.

//Postcondition: The contents of the file connected to in\_stream have been

//copied into the file connected to out\_stream, but with each 'C' replaced

//by "C++". (The files are not closed by this function.)

int main()

{

ifstream fin;

ofstream fout;

cout << "Begin editing files.\n";

fin.open("cad.dat");

if (fin.fail())

{

cout << "Input file opening failed.\n";

exit(1);

}

fout.open("cplusad.dat");

if (fout.fail())

{

cout << "Output file opening failed.\n";

exit(1);

}

add\_plus\_plus(fin, fout);

fin.close();

fout.close();

cout << "End of editing files.\n";

return 0;

}

void add\_plus\_plus(ifstream& in\_stream, ofstream& out\_stream)

{

char next;

in\_stream.get(next);

while (!in\_stream.eof())

{

if (next == 'C')

out\_stream << "C++";

else

out\_stream << next;

in\_stream.get(next);

}

}