#include <iostream>

#include <ctime>

using namespace std;

int main( )

{

// current date/time based on current system

time\_t now = time(0);

// convert now to string form

char\* dt = ctime(&now);

cout << "The local date and time is: " << dt << endl;

// convert now to tm struct for UTC

tm \*gmtm = gmtime(&now);

dt = asctime(gmtm);

cout << "The UTC date and time is:"<< dt << endl;

// current date/time based on current system

cout << "Number of sec since January 1,1970:" << now << endl;

tm \*ltm = localtime(&now);

// print various components of tm structure.

cout << "Year: "<< 1900 + ltm->tm\_year << endl;

cout << "Month: "<< 1 + ltm->tm\_mon<< endl;

cout << "Day: "<< ltm->tm\_mday << endl;

cout << "Time: "<< 1 + ltm->tm\_hour << ":";

cout << 1 + ltm->tm\_min << ":";

cout << 1 + ltm->tm\_sec << endl;

getchar();

}