

1. Write a program to create a class called *Time* which is used to represent time. The class should have three fields for *hours*, *minutes* and *seconds*. Add the following member methods:

- a default constructor;
- a constructor with parameters;
- overloaded plus operator (+) (add two time objects based on 24 hour clock);
- overloaded comparison operator (>) (compare two time objects);
- overloaded assignment operator (=).

2. To compare two complex numbers, we can look at their modulus: if $x=a+ib$, then the modulus of x is $|x|=\sqrt{a^2+b^2}$. Write a program to create a class called *Complex* which is used to represent complex numbers. The class will have two private **double** data members (real part and imaginary part). Add the following member methods:

- a default constructor;
- a constructor with parameters;
- overloaded comparison operator (>);
- overloaded assignment operator (=).

Read a list of complex numbers, arrange, and print out them in decreasing order of their modulus.