1. E-commerce websites need to record the order placing time and delivery time. Please define a time class. (20 points)

Define a time class, which can set the time composed of hour, minute and second, and output

the time in the following format:

08-09-24

12-23-59

Input format.

Please write the input format here. For example:

12 8 9

8 24 59

Output format:

Please describe the output format here. For example:

12-08-09

08-24-59

2. The complex number is widely used in circuit science. By using the sinusoidal nature of

alternating current, the capacitance and reactance are given the resistance of the complex value.

that is, the impedance. Then the calculation process only involves the four operations of the

complex number, which greatly reduces the difficulty. Please define addition subtraction,

multiplication and division operator of complex. (40 points).

Write a program to realize + - \* / operator overloading. The main functions are as follows:

1. Realize the addition, subtraction, multiplication and division of two complex numbers (C1 and C2).

2. Realize the addition, subtraction, multiplication and division of complex number C1 and integer mum.

3. Realize the addition, subtraction, multiplication and division of complex number C1 integer num and

Input format:

Please write the input format here. For example:

1 0 2.0

3.04.0

5

Output format

Please describe the output format here. For example:

c1+c2=(4.00.6.001)

c1-c2=(-2.00.-2.005)

c1\*c2=(-5.00.10.001)

c1/c2=(0.44.0.081)

c1+num-(6.00.2.001)

c1-num=(-4.00.2.001)

c1\* num=(5.00,10.001)

c1/mum=(0.20.0.401)

3, Reliability and Maintainability Simulation involves a large number of random variables. The

use of dynamic arrays will greatly improve the efficiency of simulation and the scale of problem solving. Please design Vector. (40 points)

This problem requires the implementation of a vector class template, which can realize the

storage and access of data.

(1)[] operator can only access the existing elements.

(2)The add method can automatically expand the internal storage space when accessing.

Note that the behavior of this vector is different from that of std: vector