Follow Coding Standards

Day 3 Assignments

1. Write a class called CClocks that simulates the keeping of time. Use 3 private

data members to represent hour, minute and second. Your class should be able

to

1. SetTime() : To set/initialize the starting time. To do this, use three formal

arguments representing hours, minutes and seconds.

2. IncrementTime() the time by one second.

3. Display() the time. The function should take an argument with a default

value of zero to imply military time. If this value is something other than zero,

displays the time in standard AM and PM notation. For example, 4 min and 31

sec past 7pm should be displayed as either 19:04:31 or 7:04:31 PM and 5

minutes past midnight should be displayed as either 00:05:00 or 12:05:00AM.

Declare all the three functions within the class definition.

To test your class, use the following main () function

int main()

{

CClocks clock;

clock.SetTime(23,59,00);

for(int i=0;i<100;i++)

{

clock.IncrementTime();

clock.Display();

clock.Display(1);

}

return 0;

}

1. Implement a C++ Program to add 2 complex numbers passing objects as

arguments. (Say CComplex)

a. SetData() to initialize real and imaginary part. This function takes two arguments to initialize real and imaginary part.

b. Show() to display the complex number in the format a+bi

c. Sum(complex& c) to return resultant complex object

d. void Multiply(complex& c1, complex& c2)- this is a global function to

multiply.

1. Define a class to represent an Employee. Add member variables to hold emp code (int), name(char buffer), basic salary(double). Add necessary setter function to initialize employees properly.

Implement a main() with which create an instances of employee dynamically as per user’s entry. Then write a global function to sort this entire employee array on the basis of basic salary.

Display the list of employees before sorting and after sorting.

Ensure that there is no memory wastage.