Computational Physics

Homework - c++ language

Korea University
Eunil Won

1. Write a C++ class that

1) contain 9 real variables as member data and two member functions.

2) The first member function should calculate the average of the 9 real variables and return it. The 2nd should calculate the variance and return it.

3) Write a constructor with no argument that initialize 9 real variables to zero. Write another constructor with 9 arguments that initializes them as initial values of such 9 real variables.

4) Write a main program that instantiates the class as

```
class_name foo;
class_name bar(1.0,2.0,3.0,4.0,5.0,6.0,7.0,8.0,9.0);
cout << " foo ave = " << foo.first_member();
cout << " foo var = " << foo.second_member();
cout << " bar ave = " << bar.first_member();
cout << " bar var = " << bar.second_member();
```