

Homework Seven

Due by the end of Winter Term 2007

This is either the last or the second-to-last homework of the term. (If there is another assignment, it will be short.) The purpose of these two problems is to give you basic practice with structs and classes. These programs aren't supposed to be useful or particularly amusing or interesting.

1. A Date Struct:

- (a) Write a struct for a date. The date should have member variables for year, month, and day. Store these as ints, not strings.
- (b) Write a function that takes the date as input and prints it to the screen.
- (c) Write a function that compares two dates. It should return 1 if the dates are the same, and 0 otherwise.
- (d) Write a small program that tests your date struct.

2. A Date Class:

- (a) Write a class for a date. The class should have the same member variables as the struct you just wrote. All member variables should be private.
- (b) Write a member function that prints the date to the screen.
- (c) Write a member function that compares the date to another date. It should return 1 if the dates are the same, and 0 otherwise.
- (d) Write member functions that change the value of the member variables.
- (e) Write a default constructor that sets the date to January 1, 2007.
- (f) Write a constructor that has three parameters, and sets the date according to those parameters.
- (g) Write a small program that tests the class and its member functions.