Due: 11:59 pm on November 8 (Late submissions are *not* accepted.)

Program Purpose - Implement two classes
Create a TimeOfDay class that holds the hour, minute, and second of a time of day in private integer data members. The class will contain a constructor, a print function, and accessor and mutator functions for the private data members. Read the comments in the supplied timeofday.h header file for more detailed requirements. Initial tests for the functionality of the TimeOfDay class have been provided in the attached testtimeofday.cpp source file. If you place all of the attached files in the same directory, you can run the initial tests with command
`make checktimeofday`. You are encouraged to create more rigorous tests.

Create a TimeInterval class that has a start TimeOfDay object and an end TimeOfDay object as private data members. The class will include three constructors, a print function, and accessor and mutator functions for the private data members. Read the comments in the supplied timeinterval.h header file for more detailed requirements. Initial tests for the functionality of the TimeInterval class have been provided in the attached testtimeinteral.cpp source file. If you place all of the attached files in the same directory, you can run the initial tests with command
`make checktimeinterval`. You are strongly encouraged to create more rigorous tests.

Specifications
- Add all code for the definition of the TimeOfDay class to the attached timeofday.h header file.
- Include all of the necessary code for the TimeOfDay class, including the implementation of all of the public member functions, in the attached timeofday.cpp source file.
- Add all code for the definition of the TimeInterval class to the attached timeinterval.h header file.
- Include all of the necessary code for the TimeInterval class, including the implementation of all of the public member functions, in the attached timeinterval.cpp source file.
- You will submit a zip file (only a zip file will be accepted) containing timeofday.h, timeofday.cpp, timeinterval.h and timeinterval.cpp to the assignment in Blackboard.

Grade Breakdown
Style timeofday.h: 0.25 point
Style timeofday.cpp: 0.25 point
Style timeinterval.h: 0.25 point
Style timeinterval.cpp: 0.25 point
Documentation: 1 point
Clean compilation of timeofday.cpp: 0.25 point
Clean compilation of timeinterval.cpp: 0.25 point
Clean compile/link with testtimeofday.cpp: 0.25 point
Clean compile/link with testtimeinterval.cpp: 0.25 point
TimeOfDay class passes instructor's modified testtimeofday.cpp tests: 4 points
TimeInterval class passes instructor's modified testtimeinterval.cpp tests: 3 points