CPP Problem Design

Subject: Design Month Class	
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Main testing concept:	
Basics	Functions
C++ BASICS	☐ SEPARATE COMPILATION AND NAMESPACES
☐ FLOW OF CONTROL	☐ STREAMS AND FILE I/O
FUNCTION BASICS	☐ RECURSION
☐ PARAMETERS AND OVERLOADING	☐ INHERITANCE
☐ ARRAYS	☐ POLYMORPHISM AND VIRTUAL FUNCTIONS
STRUCTURES AND CLASSES	☐ TEMPLATES
CONSTRUCTORS AND OTHER TOOLS	☐ LINKED DATA STRUCTURES
☐ OPERATOR OVERLOADING, FRIENDS, AND REFERENCES	☐ EXCEPTION HANDLING
☐ STRINGS	☐ STANDARD TEMPLATE LIBRARY
□ POINTERS AND DYNAMIC ARRAYS	PATTERNS AND UML

Description:

Define a class called Month that is an abstract data type for a month. Your class will have one member variable of type int to represent a month (1 for January, 2 for February, and so forth).

Include all the following member functions:

- 1. a constructor to set the month using the first three letters in the name of the month as three arguments, a constructor to set the month using an integer as an argument (1 for January, 2 for February, and so forth), a default constructor.
- 2. an input function name inputInt that reads the month as an integer.
- 3. an input function name inputFirstThreeLetters that reads the month as the first three letters in the name of the month.
- 4. an output function name outputInt that output the month as an integer.
- 5. an output function name outputFirstThreeLetters that outputs the month as the first three letters in the name of the month.
- 6. a member function name nextMonth that returns the next month as a value of type Month. Embed your class definition in a test program.

Note that if month out of range, set the month to January.

Input:

Replace the main from main.cpp and enter the test data in input.txt.

Output:

See the Sample Output.

Sample Input / Output:

Sample Input	Sample Output
main1.in	Month1 = 1 Jan
sample.in	Month2 = 2 Feb
	Month3 = 3 Mar
	Month4 = 4 Apr
	Month5 = 5 May
	Month6 = 6 Jun

Eazy, Only basic programming syntax and structure are required.

☐ Medium, Multiple programming grammars and structures are required.		
☐ Hard, Need to use multiple program structures or more complex data types.		
Expected solving time:		
30minutes		
Other notes:		