1. **Problem statement:**

To define a class called date which can let user to enter the year, month, and date. The whole date can be stored in a date class object. The user can compare two dates, assign the value of one date object to the other or add one day to a date object by using the different operators, including “<”, “>”,”==”,”=” and”++”. The year and date should be stored as integer variables and 3-letter abbreviation of month should be stored as string.

1. **Analysis:**

Inputs: two integer numbers representing year and date respectively, and a string character representing 3-letter abbreviation of month

Outputs: the date the user entered and the next day of that day

Additional requirements: must define a class called Date to achieve the goals.

1. **Design:**

Class definition

1. Define two integers representing year and date and a string character representing 3-letter abbreviation of month. In addition, define an integer m representing month
2. Define a default constructor, a normal constructor and a destructor.
3. Define an input function, which can get year ,month and date from users and set the value of m based on the month
4. Define operator overloading of “=”. It can give the year, month, date and m of object a to object who called the function
5. Define operator overloading of “>”,”<” and”==”. It can compare the year first, and then the month and date.
6. Define operator overloading of “++”. It can add one day to the current date. For example, for February, there are 28 days. Add one to date if date is less than 28. If date is equal to 28, let date become 1 and add one to month, and so forth.

Main function

1. declare four objects a, b, c, d of class Date
2. ask user to enter the Date A and store it in object a
3. ask user to enter the Date B and store it in object b
4. give the date of a to c and give the date of b to d
5. display the date of c and d
6. compare the two dates and give the results
7. add one day to date A and add one day to date B
8. display the results

**4. Implementation**: see C++ code in file 1405347\_3-1.cpp with comments.

**5. Testing:**

The C++ program was tested by carrying out a set of experiments and the C ++program output was verified successfully. For example,



