OOP-CS252 -Programming Test

 Write a C++ program to create a class called DATE. Accept two valid dates in the form of dd/mm/yyyy. Implement the following operations by overloading the operator + & After every operation display the results by overloading the operator < i) no_of_days=d1-d2, where d1 and d2 are DATE objects, d1>=d2, no_of_days is a integer. ii) d2=d1+no_of_days, where d1 is DATE object and no_of_days is an integer Create a class called MATRIX using two-dimensional array of integers. Impleme the following operations by overloading the operator == which checks the compatibility of two matrices to be added and subtracted. Perform the addition are subtraction by overloading the + and - operators respectively. Display the results be overloading the operator <<.
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If $(m1==m2)$
then $m3 = m1 + m2$
and $m4 = m1 - m2$
else display error.
Write a program in C++ to create a class called STRING and implement the
following operations. Display the results after every operation by overloading the
operator <<.
i. STRING s1 = "NIT"
ii. STRING s2 = "GOA"
iii. STIRNG $s3 = s1 + s2$; (Use copy constructor)
4 Write a program in C++ to create a class called STACK using an array of intege
and to implement the following operations by overloading the operators + and -:
i. s1=s1 + element; where s1 is an object of the class STACK and element is a
integer to be pushed on to top of the stack.
ii. $s1=s1-$; where $s1$ is an object of the class STACK and operator pops off the to
element.
Handle the STACK Empty and STACK Full conditions. Also display the contents of
the stack after each operation, by overloading the operator <<.
Write a program in C++ to create a class called OCTAL, which has the
characteristics of an octal number. Implement the following operations by writing a
appropriate constructor and an overloaded operator $+$. i. OCTAL $h = x$; where x
an integer ii. int $y = h + k$; where h is an OCTAL object and k is an integer. Displa
the OCTAL result by overloading the operator <<. Also display the values of h are
y.

Instructions:

- 1. The programs should be readable and well indented.
- 2. The programs should compile on a standard C++ compiler.
- 3. If it is found that the program has been copied from any source, there will be a penalty. No communication will be made with respect to this with the students.
- 4. If any two students programs are found same, then both will be awarded penalty.