Problem 1
Write a program that asks the user for an integer and determines if that number is a prime number. The program should return True when the argument is a prime number and False otherwise. A prime number is one in which the only divisors are 1 and the number itself. Hint: use modulus to determine divisibility.

Problem 2
Write a program that implements division by repeated subtraction. Ask the user to enter the numerator (dividend) and denominator (divisor). Your program should then return the number of times the denominator can be subtracted from the numerator.

Example: Numerator = 12, Denominator = 3
Your program should (in a loop) continuously subtract the denominator from the numerator until the numerator is less than the denominator. Note, the numerator will change its value for every iteration of the loop since you're subtracting the denominator from it. Print the number of times that you were able to perform the subtraction. With the sample inputs above, the program would return 4.

Validation: The denominator must not be equal to zero! If the user enters 0, then print an error message that such a divisor is not allowed!

Problem 3
Write a program that asks the user for the current year and determines whether or not the current year is a leap year. If the inputted year is a leap year, then print True, otherwise, print False.

Leap years occur according to the following formula: a leap year is divisible by four, but not by one hundred, unless it is divisible by four hundred.

For example, 1992, 1996, and 2000 are leap years, but 1993 and 1900 are not. The next leap year that falls on a century will be 2400.

Sample run:
What year: 1999
1999 is not a leap year.

What year: 1988
1988 is a leap year.