CSCI-UA.0002: Intro to Computer Programming
Instructor: Joel Kemp
Homework 3: Branching

**Problem 1: Roman Numeral Converter**
Write a program that asks the user to enter a number within the range of 1 through 10. Use branching statements to display the Roman numeral version of that number.
*Input Validation: Do not accept a number less than 1 or greater than 10.*

**Problem 2: Magic Dates**
The date June 10, 1960 is special because when we write it in the following format, the month times the day equals the year.

6/10/60

Write a program that asks the user to enter a month (in numeric form), a day, and a two-digit year. The program should then determine whether the month times the day is equal to the year. If that condition holds, the program should display a message saying that the date is magic. Otherwise, it should display a message saying that the date is not magic.

*You should ask the user for each piece of information at a time!*

**Problem 3: Areas of Rectangles**
The area of a rectangle is the rectangle's length times its width. Write a program that asks for the length and width of two rectangles. The program should tell the user which rectangle has the greater area, or if the areas are the same.

You can ask for the rectangle dimensions one rectangle at a time. For example:

Please enter the length for rectangle 1: 3
Please enter the width for rectangle 1: 3
Please enter the length for rectangle 2: 2
Please enter the width for rectangle 2: 2
Rectangle 1 is greater than rectangle 2!