This UML diagram shows the process to determine wether a year is a leap year. First, the user types the input. This calls the method IsLeapYear() which determines if the year is a leap year. If the year is before 1582, it isnt. If it is divisible by 400, it is. If it is divisible by 100 it isnt. If it is divisible by 4 it is. Since these steps are determined in order, checking if the year is divisible by 400 first and so on, it will always be deterministic.