Function model for BDSA

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The model shows how the function isLeapYear works through nested if statements to calculate if the year input is a leap year.

The function gets called with a valid user input (I.E an integer larger than 1581), and first checks if the year is divisible by 4. If it is not, the function returns false. If it is divisible by 4, the function then checks if the year is divisible by 100, because some centurial years are not leap years. If it is not the function returns true. If the year is not divisible by 100 then it lastly checks if the year is divisible by 400. If it is divisible by 400, the function returns true, if not it returns false.