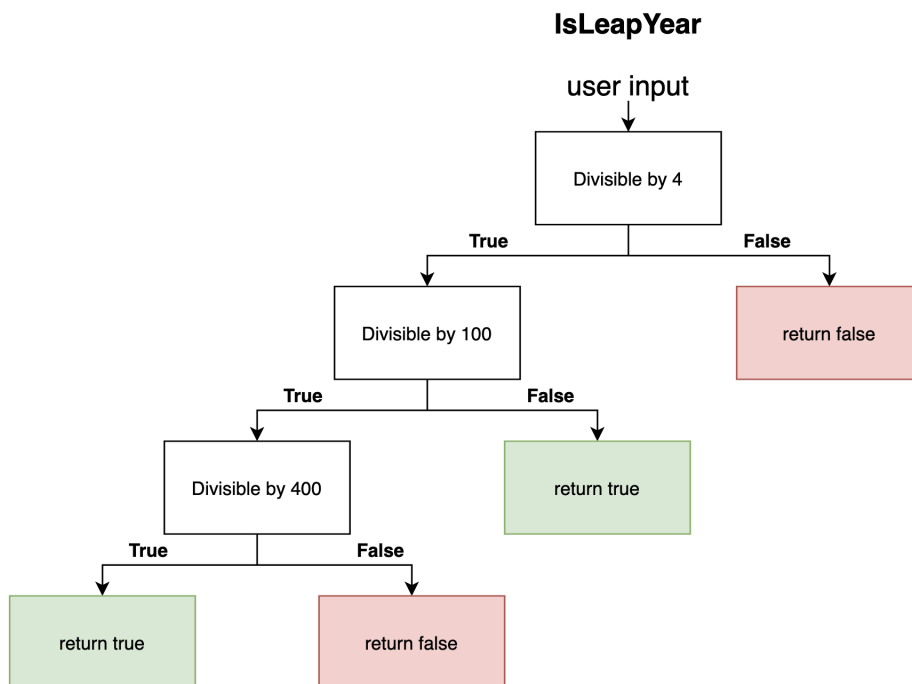


BDSA Assignment 0

Thea Kjeldsmark

September 2021

1 Exercise 9 - LaTeX



The model shows the different stages of the `IsLeapYear` method. Initially, the method takes a user input that has been validated to ensure that it is a valid integer greater than 1581.

Then it is checked if the integer can be divided by four. If not, then false is returned since the year is not a leap year. Otherwise, we need to check if the integer constitutes a centurial year, which is the case if the integer can be divided by 100.

If the input is not a centurial year, then true is returned since it is a leap year. If it is not a centurial year, then it is checked if the integer can be divided by 400. If the latter is true, then it is a leap year, and true is returned. Otherwise, it is not a leap year, and false is returned.