

BDSA Assignment-00

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1 LeapYear Algorithm

The algorithm, LeapYear, evaluates years above 1581 to determine if the provided input is a leap year. By the definition of a leap year, the algorithm determines if it could be a centurial year by dividing by 100. If it is then it can only be a leap year if it is divisible by 400. However, if it is not a centurial year then it can only be a leap year if it is divisible by 4. (See figure 1)

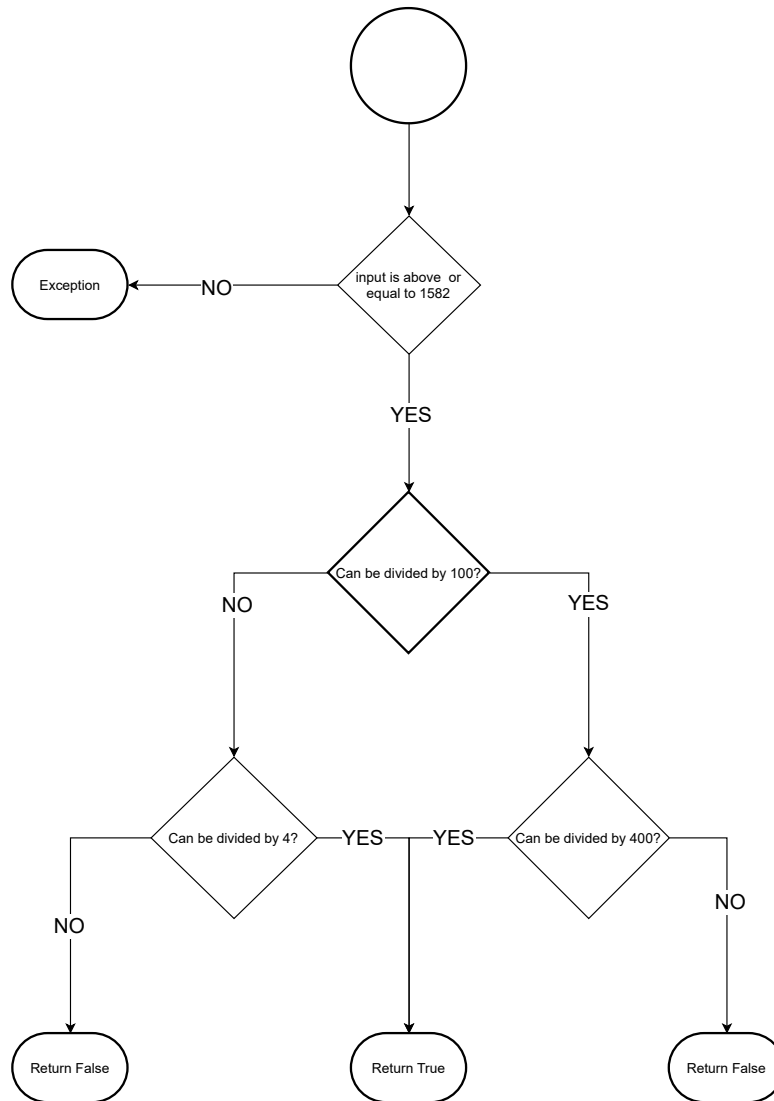


Figure 1: Overview of the logic of the LeapYear Algorithm