

BDSA, Assignment 00

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1 Method `isLeapYear()`

1.1 Textual description of the algorithm

At first, the algorithm `isLeapYear` takes an input, an integer, which represents the year, the user want to check, whether is a leap year or not. The integer is then checked whether it is within range. The range starts at 1582, and continues. If the integer is not within range, the algorithm throws an exception. If it is, the algorithm goes on to check whether the integer is divisible by 4. If it is not, the terminal prints 'nay'. If it is, the algorithm goes on to check whether the number is divisible by 10. If it is not, the algorithm prints 'yay', and if it is, the algorithm checks whether the integer is divisible by 40. If it is, it prints 'yay' and if not, 'nay'. Hereby the algorithm is finished.

An illustration can be seen on page 2.

1.2 Diagram of the algorithm in isLeapYear()

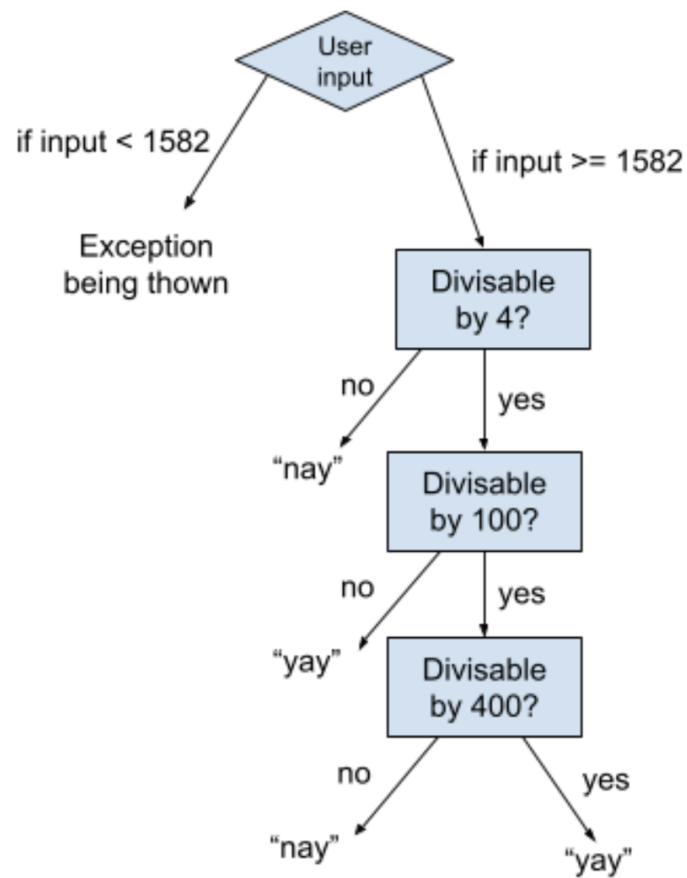


Figure 1: This diagram shows the algorithm used for the method isLeapYear().