

Assignment 00

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1 Describing the algorithm

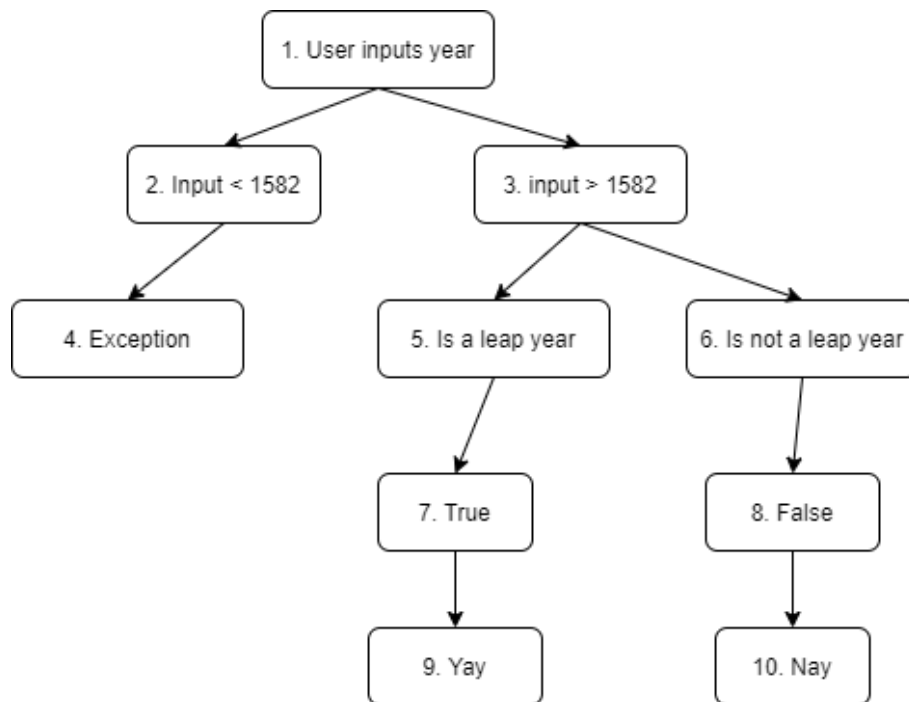


Diagram of isLeapYear

The user wants to know whether a year is a leap year or not. The user inputs a year as seen in box 1. If the user's input is less than 1582 an exception is being thrown and the message: "The year has to be 1582 or bigger" is being printed out. If the input is greater than 1582 the program algorithm checks if the year is a leap year. The year is a leap year if it divisible by 4, not divisible by 100 but divisible by 400. If all these statements are true, the year is a leap (box 5) year and "yay" is being printed (box 9). If one of the statements is false it is not a leap year (box 6) and "nay" is being printed (box 10).