

# Description of IsLeapYear algorithm

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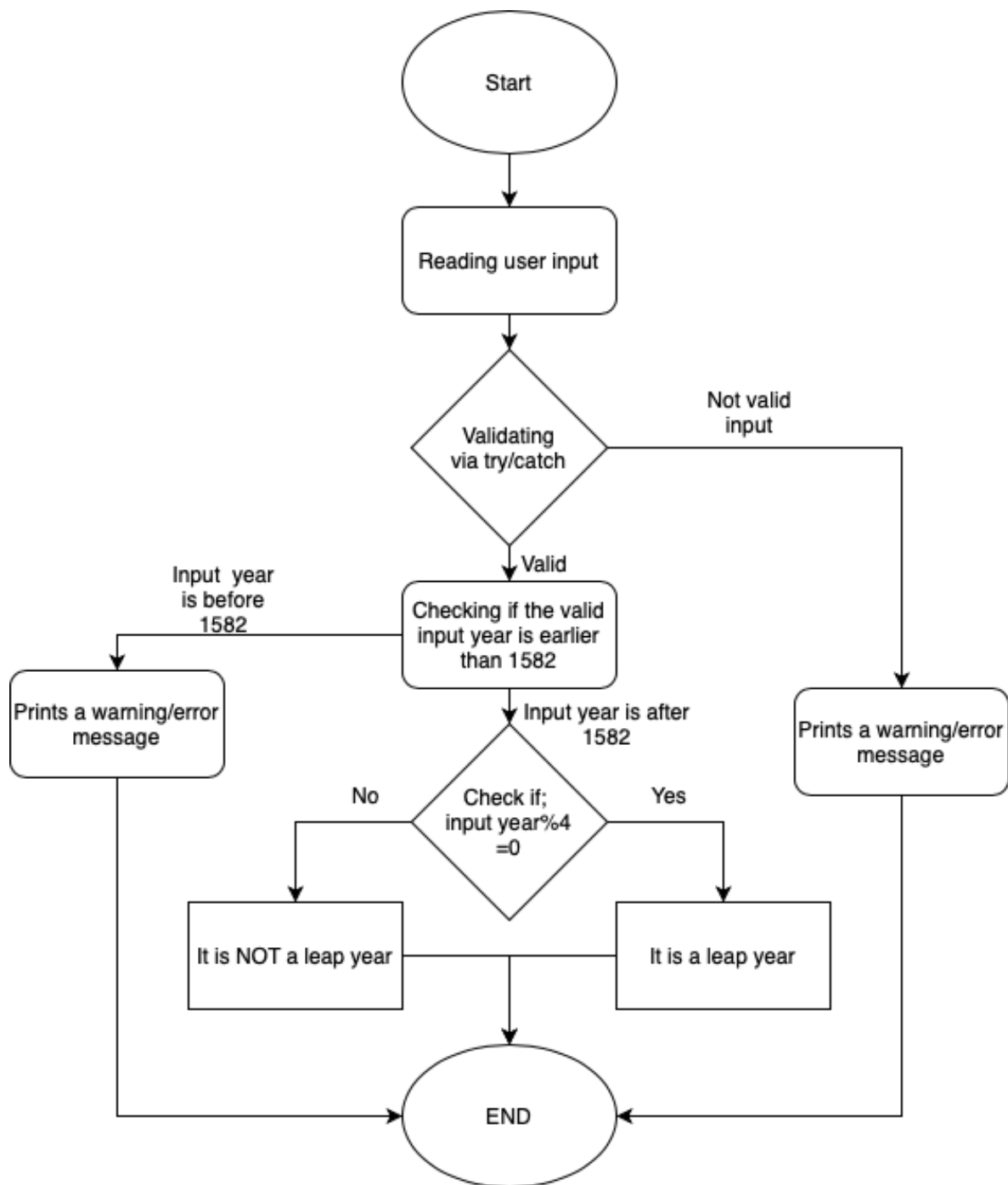


Figure 1: This is an illustration of the IsLeapYear algorithm

The illustration on the page above, is a visualisation of how the isLeapYear program is working from start to finish. In the first circle of the illustration, where it says "start", is where the program launches. This is done via the dotnet run command. Then the user gets to type in an input, which then is put into the function as a variable of integers. The system then checks if the input is a variable of integers or an odd input. This is done via a try/catch, where it is looking for and handling other inputs than integers. The way a non-integer input is dealt with, is by printing a warning/error message, after which the program stops. However if the input is valid, it will then be checked if it complies with the desired parameter about the year cannot be earlier than 1582. If the input year is earlier it will end the program, just after a error/warning message. If it on the other hand successfully parses this check, the math will begin. The isLeapYear function will now check if the input year mod 4 = 0, to see if it is a leap year or not. after this the system will print a message either saying "it is a leap year" or "it is not a leap year" according to the mathematical test. The program will then end.