

Exercise 9

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First the user enters the year to check, as seen in the top left corner (Figure 1). Then the input is read, and it is checked whether it is an integer or not. If it is not an integer, then an exception will be thrown and caught. An error message will be printed.

If it is an integer, and it is less than 1582, follow the arrows down in the middle. Another error message is shown, because the year must be after 1582.

If it is an integer, and it is greater or equal to 1582, then we first check if the integer is divisible by 400. If it is, the method `IsLeapYear(int year)` returns true, and "yay" is printed. If the integer is divisible by 400, we check if it is divisible by 100. If so, the method `IsLeapYear(int year)` returns false, and "nay" is printed in the terminal. If the integer is not divisible by 100, we check if it is divisible by 4. If it is, `IsLeapYear(int year)` returns true, and "yay" is printed, if not the method returns false, and "nay" is printed.

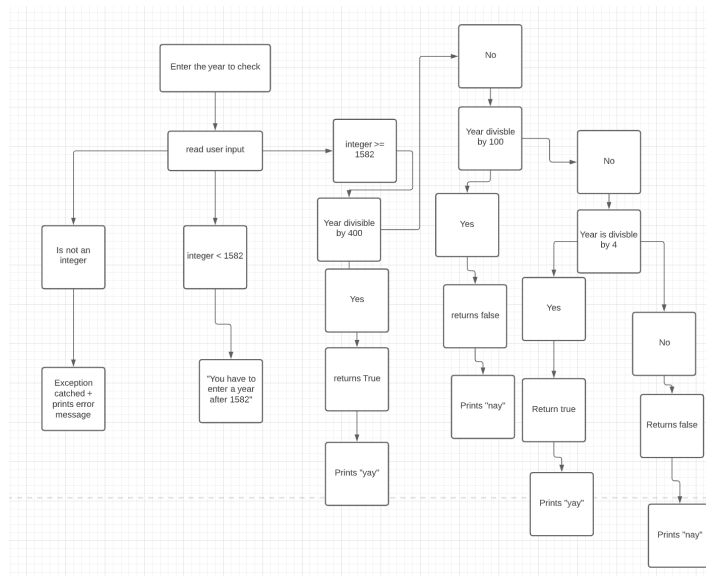


Figure 1: This picture is a diagram visualizing the algorithm.