Visualization of Algorithm

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1 Exercise 7

Since I have three methods in my LeapYearClass.cs class. I have decided to make a visualization of all methods and not only *IsLeapYear()*.

1.1 Main()

The *Main()* method of the program works by starting out with a *Console.WriteLine* statement. In which it prints out *"Enter leap year"*. It then prompt the user via the console to input a leap year. If the following input is parable the program continues. If not it terminates. If the input is parsable it will convert the string to an *integer*. Where it will then via the *IsLeapYear* method check whether it is a leap year or not. If it is, it prints *"yay"* and if not it prints *"nay"*.

1.2 IsLeapYear()

The *IsLeapYear* method starts by taking a input parameter *year*. It check whether this smaller than 1582. If not it checks whether it is exactly divisible by four is a leap year. If it is it checks whether is it exactly divisible by 100 and 400. If this is the case the method returns true. But if any of these fail it returns false.

1.3 IsParsable()

The *IsParsable* method starts out with a *Try-Catch block*. Where it tries to convert the inputted string from *Main*. If an exception occurs it catches a *System.FormatException*. While also writing to the console *"Unable to parse"* and returning false. If no exception occur it returns true.

2 Appendix

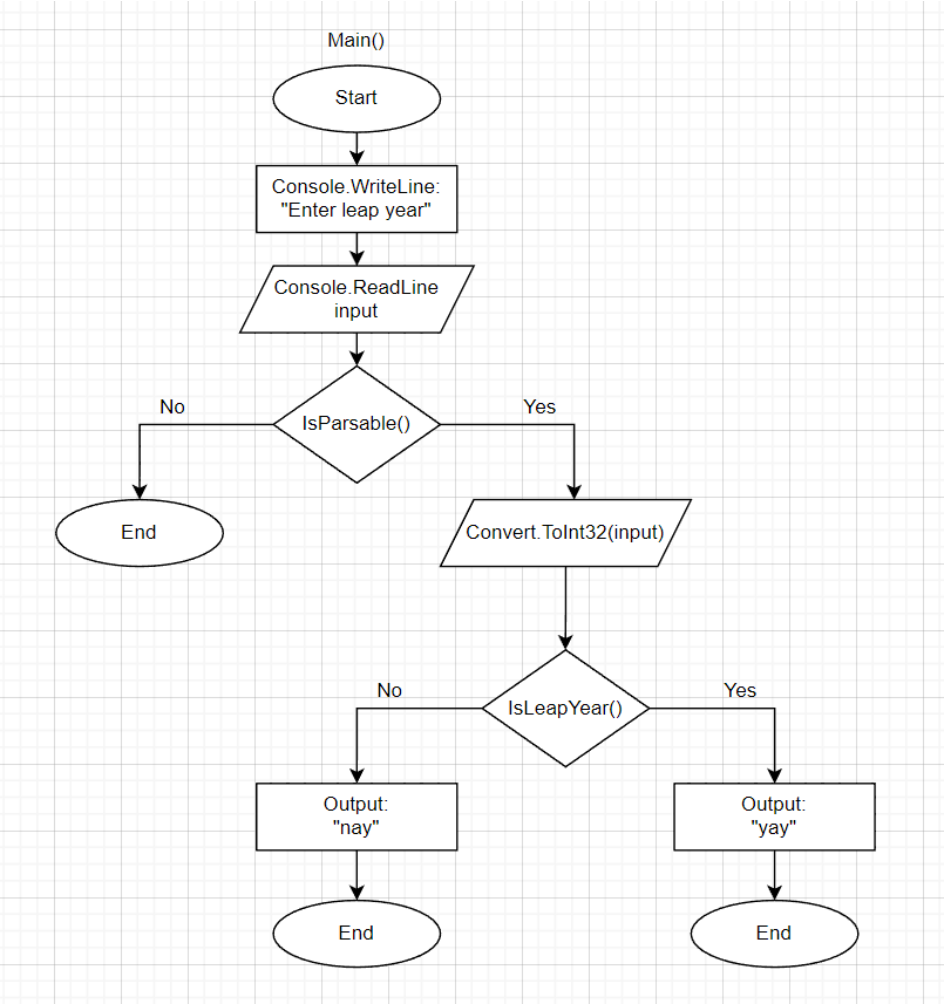

Figure 1: Main()

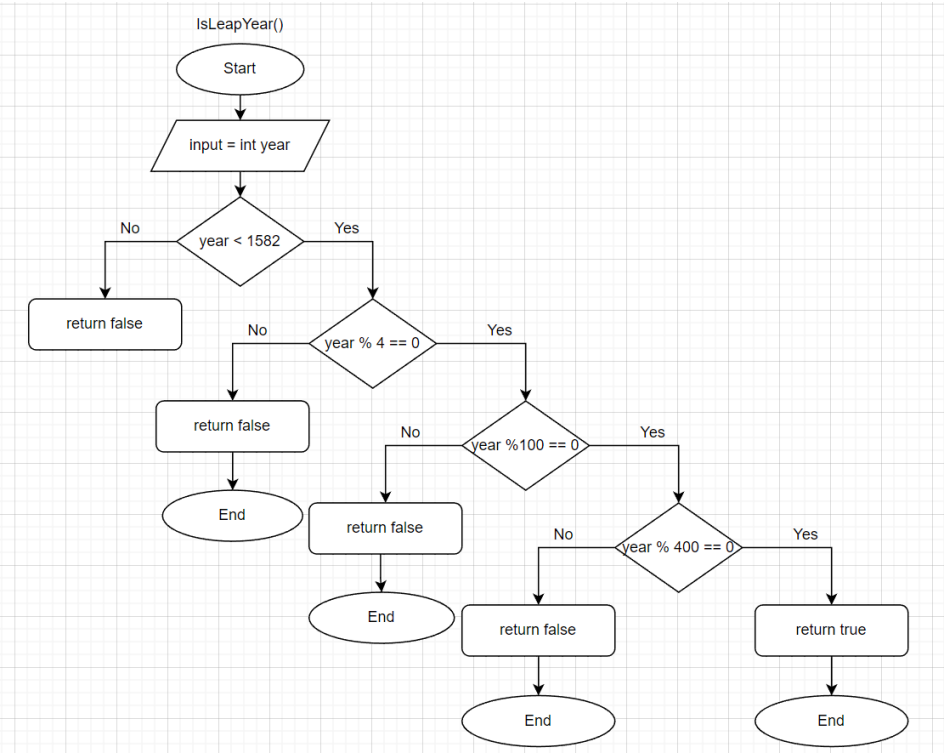

Figure 2: IsLeapYear()

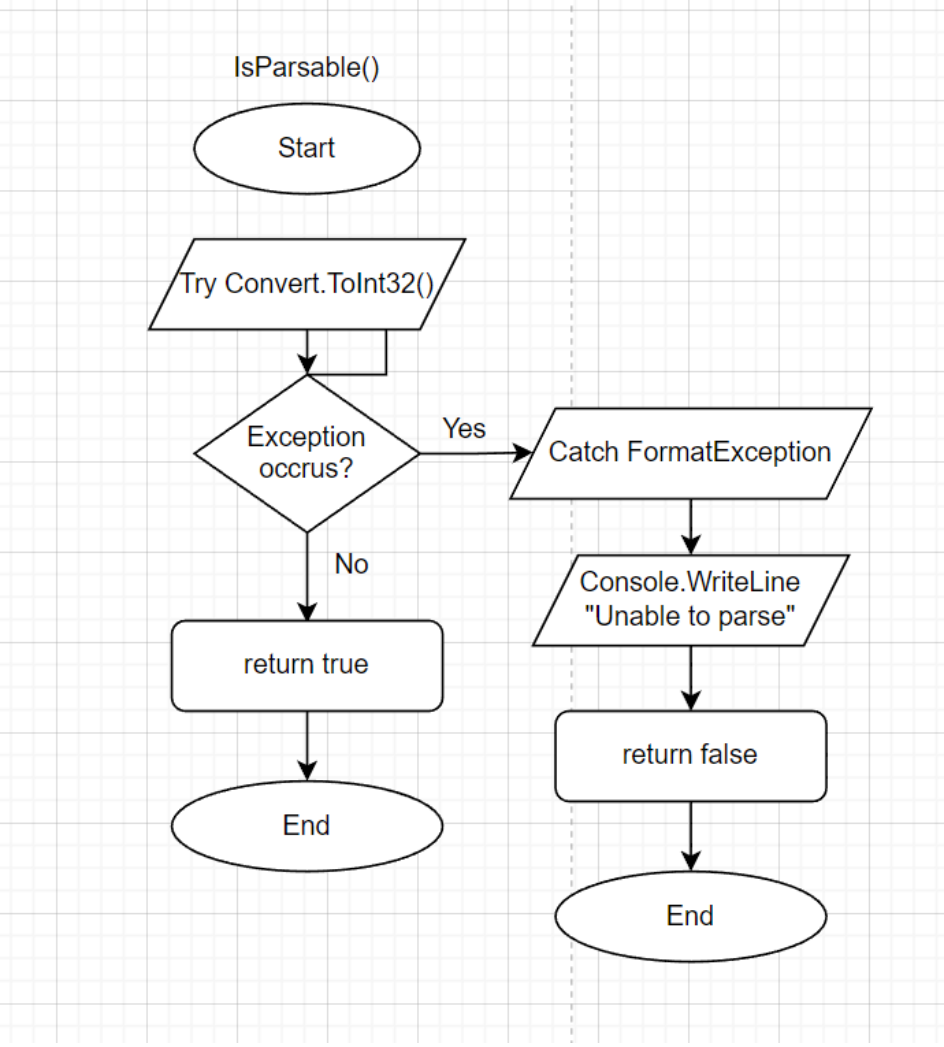

Figure 3: IsParsable()