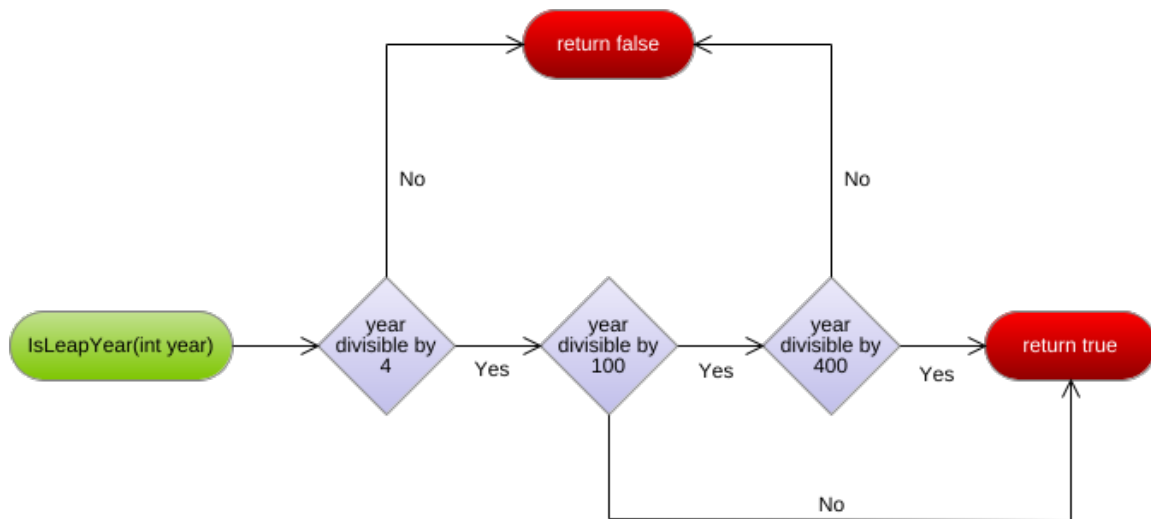


# 1 IsLeapYear



Figur 1: Flowchart Diagram

The IsLeapYear function takes an integer paramater and returns a boolean. The return value corresponds to whether the given input is a leap year. This is determined by a set of checks, first if the input is divisible by four, then if it is divisible by one hundred and last if it is divisible by four hundred as can be seen in the flowchart above.

If the input is not divisible by four the function returns false. If it is divisible by four the function then checks if the input is divisible by one hundred.

If the input is not divisible by one hundred the function returns true. If it is divisible by one hundred the function checks if it is divisible by four hundred

If the input is divisible by four hundred the function returns true, if not it returns false.