

# BDSA Assignment00

stmp

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## 1 Description

The diagram depicts the algorithm of the MyApp Main function. This uses a combination of the IsLeapYear function, which main functionality is to figure out if a year is a leap year or not, along with the function YayOrNay, which converts boolean true or false inputs to "yay" or "nay" string outputs.

The program starts with a user input provided via the console. The first check is to see if the input is convertible to an integer, as all years are integers. If this is not the case, the program returns "Input is Not a Number". However, if the input is convertible to an integer the flow continues.

The next check is to see if the input, now as number, is above the value 1582. This is because leap years did not exist prior to this year. If the provided year is not equal to or larger than 1580, the program returns "Year Out of Scope". If the provided number is above this value, the flow continues.

The last 3 checks are making sure that the provided number is divisible by 4, but if it is also divisible by 100 it needs to also be divisible by 400. For cases that do comply with these constraints, the program returns "yay", and for cases that do not comply with the constraints, the program returns "nay"

