BDSA Assignment 0

mfau

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1 Exercise 9

int year

< 1583   >= 1583

ArgumentOutOfRangeException()

year % 4 == 0 && year % 100 != 0

True   False

Return true

year % 4 == 0 && year % 100 == 0
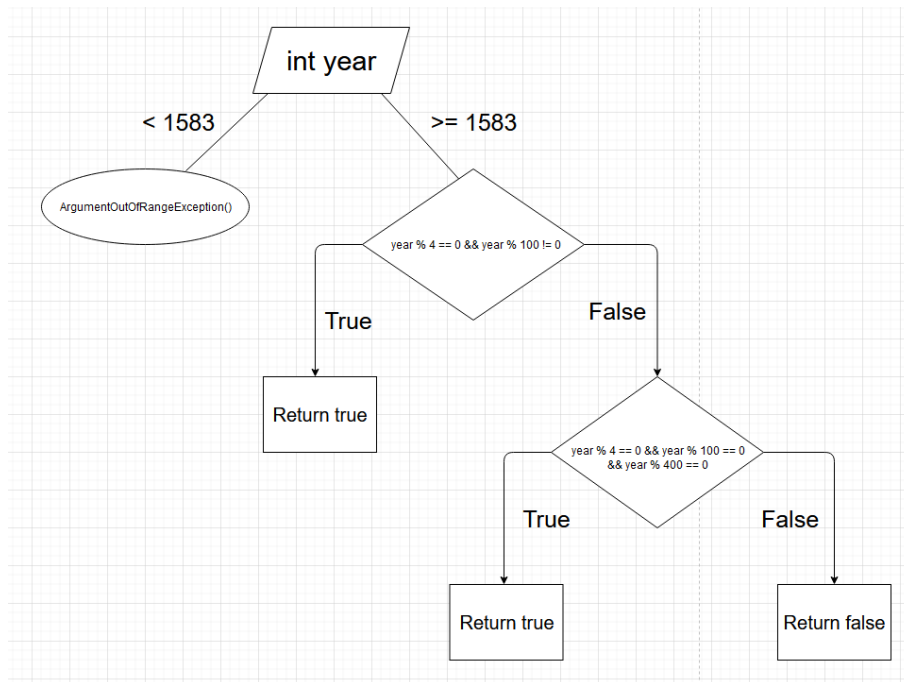&& year % 400 == 0

True   False

Return true   Return false

Figure 1: Leap Year Algorithm

The method takes an integer as a parameter. If the integer is below 1853, the method throws an ArgumentOutOfRangeException. If the integer is more than or equal to 1853, the method checks if the integer is 'divisible by 4 and not 100'. If it is, the method returns true. In case it is not, the method checks if it is also divisble by 400. If it is, the method returns true, otherwise it returns false.