

1 BDSA assignment 00

The figure below illustrates the flow of the method *isLeapYear()*

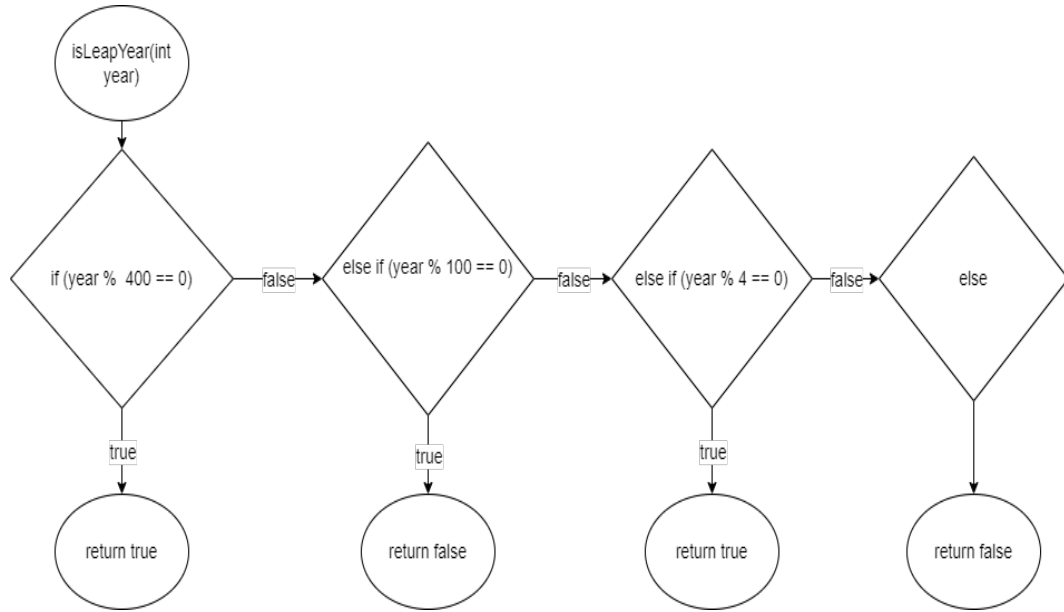


Figure 1: Caption

Explaining the algorithm / flow:

When the method *isLeapYear(int year)* is called, the parameter *year* is examined by the first if-statement (illustrated as the tilted square farthest to the left in the above diagram). The first if-statement determines whether the parameter is divisible by 400. If it is, the method will return *true*. If the first if-statement returns *false*, the following else-if-statement will determine whether the parameter *year* is divisible by 100. If the first else-if-statement is false the method will return false, if it is true the method will continue to the next else-if-statement. The second else-if-statement determines whether *year* is divisible by 4, if it is the method will return true, and if not, the following else-statement will ensure that false is returned.