

Assignment 0 IDBS

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1 isLeapYear algorithm

The isLeapYear algorithm of the Calendar Class, takes an integer 'year' as its only parameter, and returns a boolean value.

- First check of the algorithm is whether the year is before 1582, as leap years don't apply to earlier years. If an earlier year is given, false is returned we check if the year is divisible by 400. If this is the case we always return true
- We then see if the year is divisible by 100, this returns false, even if the year is divisible by 4.
- Last check is if year is divisible by 4. If this is the case we return true, and if not the algorithm terminates by returning false

1.1 Flowchart

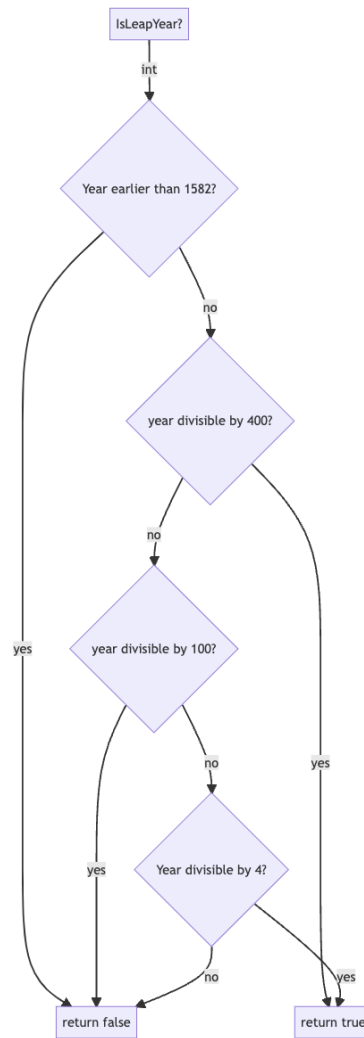


Figure 1: Flowchart of isLeapYear algorithm, made in mermardJS