

Exercise: Leap years

Our current concept of leap years started in 1582 when the Gregorian calendar was introduced. From the `MyDate` class you have a method `isLeapYear()`.

Create a module and copy your class `MyDate` into the `src` folder for this module. Create a class `LeapYearTest` with a `main` method doing the following

- a) Use a for-loop and a `MyDate` object to calculate how many leap years there have been since 1582, and then prints out the result.
Hint: set the `MyDate` object to all the years (calling the `set` method in the loop body), and check (and sum up) which ones are leap years.
- b) Modify the program by adding a `Scanner` object, allowing the user to input a start year and an end year. Then the program should calculate the number of leap years within that range.