

# Leap Year Function

This is a **warmup** exercise. It is **not compulsory**, and may be completed **individually or with your lab partner**.

For this exercise, you are going to take your leap year program that you wrote last week and put the logic of calculating whether it is a leap year into a function.

The function prototype should be `int isLeapYear(int year)`. It should return 0 if it is not a leap year and 1 if it is a leap year. Your leap year function must not print anything. You should call this function from your main function, which is where you print the result.

## Some Examples

```
$ ./leapYear2
Enter a year after 1582: 12
12 is before 1582.
```

```
$ ./leapYear2
Enter a year after 1582: 2000
2000 is a leap year.
```

```
$ ./leapYear2
Enter a year after 1582: 2004
2004 is a leap year.
```

```
$ ./leapYear2
Enter a year after 1582: 2001
2001 is not a leap year.
```

```
$ ./leapYear2
Enter a year after 1582: 2100
2100 is not a leap year.
```

To run some simple automated tests:

```
$ 1511 autotest leapYear2
```

To run Styl-o-matic:

```
$ 1511 stylomatic leapYear2.c  
Looks good!
```

You'll get advice if you need to make changes to your code.

Submit your work with the *give* command, like so:

```
$ give cs1511 wk03_leapYear2
```

Or, if you are working from home, upload the relevant file(s) to the `wk03_leapYear2` activity on [Give Online](#).