

## 1118. Number of Days in a Month

Given a year Y and a month M, return how many days there are in that month.

```
class Solution {
    public int numberOfDays(int Y, int M) {

        boolean isLeapYear = checkYear(Y);
        int[] days = {31, 28, 31, 30, 31, 30, 31,
                     31, 30, 31, 30, 31};

        if (isLeapYear && M == 2)
            return days[1] + 1;

        return days[M-1];

    }

    private boolean checkYear(int year) {
        if (year % 400 == 0)
            return true;

        if (year % 100 == 0)
            return false;

        if (year % 4 == 0)
            return true;

        return false;
    }
}
```