



BACK

Missed Classes

 158,354



< DESCRIPTION MY SOLUTIONS LEADERBOARD COMMENTS README >

CODEWRITING SCORE: 300/300

Your Math teacher takes education very seriously, and hates it when a class is missed or canceled for any reason. He even made up the following rule: if a class is missed because of a holiday, the teacher will compensate for it with a makeup class after school.

You're given an array, `daysOfTheWeek`, with the weekdays on which your teacher's classes are scheduled, and `holidays`, representing the dates of the holidays throughout the academic year (from 1<sup>st</sup> of September in `year` to 31<sup>st</sup> of May in `year + 1`). How many times will you be forced to stay after school for a makeup class because of holiday conflicts in the current academic year?

For your convenience, here is the list of month lengths (from January to December, respectively):

- Month lengths: 31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31.

Please note that in **leap years** February has 29 days.

Example

For `year = 2015`, `daysOfTheWeek = [2, 3]` and `holidays = ["11-04", "02-22", "02-23", "03-07", "03-08", "05-09"]`, the output should be `missedClasses(year, daysOfTheWeek, holidays) = 3`.

November 4<sup>th</sup> of 2015 is a Wednesday, February 23<sup>th</sup> of 2016 and March 8<sup>th</sup> of 2016 are Tuesdays, and the other holidays fall on Mondays. Classes are scheduled on Wednesdays and Tuesdays, so there will be only 3 missed classes.

Input/Output

- [execution time limit] 4 seconds (js)**
- [input] integer year**

An integer representing the correct year. The current academic year started on September 1 st and will finish on May 31 st of `year + 1`.

*Guaranteed constraints:*  
 $1900 \leq year \leq 2100$ .

- [input] array.integer daysOfTheWeek**

A sorted array of integers from 1 to 7 representing the days of the week (1-based, i.e. 1 for Monday, 2 for Tuesday and so on) on which classes are scheduled.

*Guaranteed constraints:*  
 $0 \leq daysOfTheWeek.length \leq 7$ ,  
 $1 \leq daysOfTheWeek[i] \leq 7$ .

- [input] array.string holidays**

An array of strings representing the correct dates of holidays in this academic year in the format "`mm-dd`", where "`mm`" stands for the month (1-based, i.e. "01" for January, "02" for February and so on) and "`dd`" stands for the day.

*Guaranteed constraints:*  
 $0 \leq holidays.length \leq 30$ ,  
 $1 \leq \text{int}(\text{mm}) \leq 12$ , except 6, 7 and 8,  
 $1 \leq \text{int}(\text{dd}) \leq 31$ .

- [output] integer**

The number of classes that will be missed.

[JavaScript (ES6)] Syntax Tips

```
// Prints help message to the console
// Returns a string
function helloWorld(name) {
```

