Questions | Reading 2: Code Review | 6.005.1x Courseware

◫ openlearninglibrary.mit.edu/courses/course-v1:MITx+6.005.1x+3T2016/courseware/Readings_Videos/02-Code-Review

1. <u>Course</u> , current location
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Questions

don't repeat yourself

1/1 point (graded)

```
public static int dayOfYear(int month, int dayOfMonth, int year) {
    if (month == 2) {
        dayOfMonth += 31;
    } else if (month == 3) {
        dayOfMonth += 59;
    } else if (month == 4) {
        dayOfMonth += 90;
    } else if (month == 5) {
        dayOfMonth += 31 + 28 + 31 + 30;
    } else if (month == 6) {
        dayOfMonth += 31 + 28 + 31 + 30 + 31;
    } else if (month == 7) {
        dayOfMonth += 31 + 28 + 31 + 30 + 31 + 30;
    } else if (month == 8) {
        dayOfMonth += 31 + 28 + 31 + 30 + 31 + 30 + 31;
    } else if (month == 9) {
        dayOfMonth += 31 + 28 + 31 + 30 + 31 + 30 + 31 + 31;
    } else if (month == 10) {
        dayOfMonth += 31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30;
    } else if (month == 11) {
        dayOfMonth += 31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31;
    } else if (month == 12) {
        dayOfMonth += 31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31 + 31;
    }
    return dayOfMonth;
}
```

Some of the repetition in dayOfYear() is repeated values. How many times is the number of days in April written in dayOfYear()?

correct
8

Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.

don't repeat yourself, part 2

1/1 point (graded)

One reason why repeated code is bad is because a problem in the repeated code has to be fixed in many places, not just one. Suppose our calendar changed so that February really has 30 days instead of 28. How many numbers in this code have to be changed?

correct
10

Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.

don't repeat yourself, part 3

1/1 point (graded)

Another kind of repetition in this code is dayOfMonth+=. Assume you have an array:

```
int[] monthLengths = new int[] { 31, 28, 31, 30, ..., 31}
```

Which of the following code skeletons could be used to DRY the code out enough so that dayOfMonth+= appears only once? Check all that apply.

correct

Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.