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Day 26: Nested Logic

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Objective

Today's challenge puts your understanding of nested conditional statements to the test. You already have the knowledge to complete this challenge, but check out the Tutorial tab for a video on testing!

Task

Your local library needs your help! Given the expected and actual return dates for a library

Submitted 30162 times
Max Score 30

Need Help?

book, create a program that calculates the fine (if any). The fee structure is as follows:

1. If the book is returned on or before the expected return date, no fine will be charged (i.e.: .
2. If the book is returned after the expected return *day* but still within the same calendar month and year as the expected return date, .
3. If the book is returned after the expected return *month* but still within the same calendar year as the expected return date, the .
4. If the book is returned after the calendar *year* in which it was expected, there is a fixed fine of .

Input Format

The first line contains space-separated integers denoting the respective , , and on which the book was *actually* returned.
The second line contains space-separated integers denoting the respective , , and on which the book was *expected* to be returned (due date).

Constraints

-
-
-
-

Output Format

Print a single integer denoting the library fine for the book received as input.

Sample Input

```
9 6 2015
6 6 2015
```

Sample Output

```
45
```

Explanation

Given the following return dates:
Actual:
Expected:

Because , we know it is less than a year late.
Because , we know it's less than a month late.
Because , we know that it was returned late (but still within the same month and year).

Per the library's fee structure, we know that our fine will be . We then print the result of as our output.

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Suggest Edits

Current Buffer (saved locally, editable)

Python 3

```
actual_date = input().split()
expected_date = input().split()
day_actual = int(actual_date[0])
day_expected = int(expected_date[0])
month_actual = int(actual_date[1])
month_expected = int(expected_date[1])
year_actual = int(actual_date[2])
year_expected = int(expected_date[2])
# print("Actual Date(D-M-Y): {}-{}-{}".format(day_actual, month_actual, year_actual))
# print("Expected Date(D-M-Y): {}-{}-{}".format(day_expected, month_expected, year_expected))

if year_expected == year_actual:
    if month_expected == month_actual:
        if day_expected < day_actual:
            print(15*(day_actual - day_expected))
        else:
            print(0)
    elif month_expected < month_actual:
        print(500*(month_actual - month_expected))
    else:
        print(0)
elif year_expected < year_actual:
    print(10000)
else:
    print(0)

```

Line: 26 Col: 1

Test against custom input

Run Code Submit Code

Congrats, you solved this challenge!

Challenge your friends:

Test Case #0 Test Case #1 Test Case #2
Test Case #3 Test Case #4 Test Case #5
Test Case #6 Test Case #7 Test Case #8

Test Case #9

Next Challenge

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