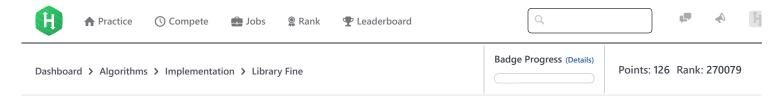
15/11/2017 HackerRank



Library Fine **■**



Problem

Your local library needs your help! Given the expected and actual return dates for a library 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.: fine = 0).
- 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, *fine* = 15 Hackos × (the number of days late).
- 3. If the book is returned after the expected return *month* but still within the same calendar year as the expected return date, the *fine* = 500 Hackos × (the number of months late).
- 4. If the book is returned after the calendar year in which it was expected, there is a fixed fine of 10000 Hackos.

Input Format

The first line contains **3** space-separated integers denoting the respective *day*, *month*, and *year* on which the book was *actually* returned. The second line contains **3** space-separated integers denoting the respective *day*, *month*, and *year* on which the book was *expected* to be returned (due date).

Constraints

- $1 \le D \le 31$
- $1 \le M \le 12$
- $1 \le Y \le 3000$
- It is guaranteed that the dates will be valid Gregorian calendar dates.

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:
$$D_a = 9, M_a = 6, Y_a = 2015$$

Expected: $D_e = 6, M_e = 6, Y_e = 2015$

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```
Because Y_e \equiv Y_a, we know it is less than a year late. Because M_e \equiv M_a, we know it's less than a month late. Because D_e < D_a, 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 $15 \; Hackos \times (\# \; days \; late)$. We then print the result of $15 \times (D_a - D_e) = 15 \times (9 - 6) = 45$ as our output.

```
f in
Submissions:<u>57342</u>
Max Score:15
Difficulty: Easy
Rate This Challenge:
☆☆☆☆☆
```

```
Current Buffer (saved locally, editable) & 🗗
                                                                                            Java 7
                                                                                                                              Ö
 1 ▼ import java.io.*;
 2 import java.util.*;
 3
    import java.text.*;
    import java.math.*;
    import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
 9 ▼
         public static void main(String[] args) {
10
             Scanner in = new Scanner(System.in);
             int d1 = in.nextInt();
11
             int m1 = in.nextInt();
12
             int y1 = in.nextInt();
13
14
             int d2 = in.nextInt();
             int m2 = in.nextInt();
15
             int y2 = in.nextInt();
16
17
         }
18
    }
19
                                                                                                                      Line: 1 Col: 1
                       Test against custom input
                                                                                                         Run Code
                                                                                                                       Submit Code
1 Upload Code as File
```

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