



Library Fine

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Problem

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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

- $1 \leq D \leq 31$
- $1 \leq M \leq 12$
- $1 \leq Y \leq 3000$
- 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: $D_e = 6, M_e = 6, Y_e = 2015$

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 $15 \text{ Hackos} \times (\# \text{ days late})$. We then print the result of $15 \times (D_a - D_e) = 15 \times (9 - 6) = 45$ as our output.

[f](#) [t](#) [in](#)Submissions: [57342](#)

Max Score: 15

Difficulty: Easy

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```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         Scanner in = new Scanner(System.in);
11         int d1 = in.nextInt();
12         int m1 = in.nextInt();
13         int y1 = in.nextInt();
14         int d2 = in.nextInt();
15         int m2 = in.nextInt();
16         int y2 = in.nextInt();
17     }
18 }
19
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input

Run Code

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