## Library Fine

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 $\times$ (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 $\times$ (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.

Charges are based only on the least precise measure of lateness. For example, whether a book is due January 1, 2017 or December 31, 2017, if it is returned January 1, 2018, that is a year late and the fine would be 10, 000 Hackos.

## Example

$d 1, m 1, y 1=14,7,2018$
$d 2, m 2, y 2=5,7,2018$
The first values are the return date and the second are the due date. The years are the same and the months are the same. The book is $14-5=9$ days late. Return $9 * 15=135$.

## Function Description

Complete the libraryFine function in the editor below.
libraryFine has the following parameter(s):

- d1, m1, y1: returned date day, month and year, each an integer
- d2, m2, y2: due date day, month and year, each an integer


## Returns

- int: the amount of the fine or 0 if there is none


## Input Format

The first line contains 3 space-separated integers, $d 1, m 1, y 1$, denoting the respective day, month, and year on which the book was returned.
The second line contains 3 space-separated integers, $d 2, m 2, y 2$, denoting the respective day, month, and year on which the book was due to be returned.

## Constraints

- $1 \leq d 1, d 2 \leq 31$
- $1 \leq m 1, m 2 \leq 12$
- $1 \leq y 1, y 2 \leq 3000$
- It is guaranteed that the dates will be valid Gregorian calendar dates.


## Sample Input

```
962015
6 6 2015
```


## Sample Output

```
    4 5
```


## Explanation

Given the following dates:
Returned: $d 1=9, m 1=6, y 1=2015$
Due: $d 2=6, m 2=6, y 2=2015$
Because $y 2 \equiv y 1$, we know it is less than a year late.
Because $m 2 \equiv m 1$, we know it's less than a month late.
Because $d 2<d 1$, 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 $15 \times(d 1-d 2)=15 \times(9-6)=45$ as our output.

