## Nested Logic

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.

## 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

```
962015
6 6 2015
```


## Sample Output

```
4 5
```


## Explanation

Given the following return dates:
Actual: $D_{a}=9, M_{a}=6, Y_{a}=2015$

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 Hackos $\times$ (\# days late). We then print the result of $15 \times\left(D_{a}-D_{e}\right)=15 \times(9-6)=45$ as our output.

