**Day 26: Nested Logic**

**Task**  
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 X (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 X (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 < D < 31
* 1 < M < 12
* 1 < Y < 3000

**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