Problem: 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.: .
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, .
3. If the book is returned after the expected return *month* but still within the same calendar year as the expected return date, the .
4. If the book is returned after the calendar *year* in which it was expected, there is a fixed fine of .

**Input Format**

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

**Constraints**

**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:    
Expected:

Because , we know it is less than a year late.   
Because , we know it's less than a month late.   
Because , 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 . We then print the result of  as our output.

Solution:

int main()

{

int rdate, rmonth, ryear;

int edate, emonth, eyear;

int fine;

cin>>rdate >>rmonth >>ryear;

cin>>edate >>emonth >>eyear;

if(rdate>edate && rmonth==emonth && ryear==eyear)

{ cout<<15\*(rdate-edate);}

else if(rmonth>emonth && ryear==eyear)

{ cout<<500\*(rmonth-emonth); }

else if(ryear>eyear)

{ cout<<"10000"; }

else

{ cout<<"0";}

return 0;

}

* Anshul Aggarwal