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

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-
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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