IT Coding Challenge # 1 – "500 Words"

Write a script in your favorite language to generate 500 random words that appear in the text file provided (dictionary.txt). Your script should generate random strings, no shorter than 3 characters and no longer than 10, from the 26 lower-case letters of the alphabet. If the string appears in dictionary.txt, keep it, otherwise continue until the 500 total is reached.

Coding Challenge #2 – "Parking Ticket"

Given the amount of a parking ticket, its due date, and the date on which a person pays the ticket, create a program that calculates the total of the ticket amount and an additional fine (if any). The additional fines are determined as follows:

1. If the ticket is paid on or before the due date, no fine is charged (fine = 0).
2. If the ticket is paid after the due date but within the same calendar month and year, the fine is $1 X the number of days late.
3. If the ticket is paid after the due date but still within the same calendar year, the fine is $35 X (the number of months late). Ignore the days.
4. If the ticket is paid after the calendar year in which it was expected, there is a fixed fine of $500. Ignore the months and days.

Input Format

The first line contains space-separated integers denoting the respective month, day, and year on which the ticket was paid.

The second line contains space-separated integers denoting the respective day, month, and year on which the ticket was due.

The third line contains one integer denoting the original ticket amount.

Sample Input

9 6 2015

6 6 2015

30

Output Format

Print a single integer denoting the total amount due (ticket amount + fine).

Sample Output

135