

Day of Year

Day of year number is the number of days from 1 January. Write a program to calculate the day of year number from day, month and year (in Buddhist calendar).

Input

The first line is day number.

The second line is month number.

The third line is year number (Buddhist calendar)

Output

The day of year number of the input day, month year

Example

Input (from keyboard)	Output (on screen)
1 1 2559	1
31 12 2559	366
5 12 2560	339
31 12 2560	365

Hint: Buddhist calendar = AD + 543