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Status

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Started

Tuesday, 14 January 2025, 12:30 PM

Completed

Tuesday, 14 January 2025, 1:08 PM

Duration

37 mins 45 secs

Question 1

Correct

Marked out of 3.00

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Some data sets specify dates using the year and day of year rather than the year, month, and day of month. The day of year (DOY) is the sequential day number starting with day 1 on January 1st.

There are two calendars - one for normal years with 365 days, and one for leap years with 366 days. Leap years are divisible by 4. Centuries, like 1900, are not leap years unless they are divisible by 400. So, 2000 was a leap year.

To find the day of year number for a standard date, scan down the Jan column to find the day of month, then scan across to the appropriate month column and read the day of year number. Reverse the process to find the standard date for a given day of year.

Write a program to print the Day of Year of a given date, month and year.

Sample Input 1

18
6
2020

Sample Output 1

170

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int day, month, year;
5     scanf("%d %d %d", &day, &month, &year);
6     int is_leap_year = (year % 4 == 0 && year % 100 != 0) || (year % 400 == 0);
7     int day_of_year = 0;
```