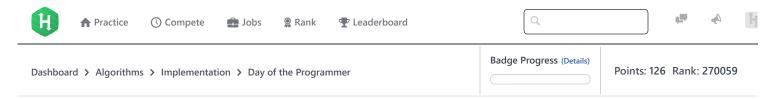
15/11/2017 HackerRank



Day of the Programmer **■**



Problem	Submissions	Leaderboard	Discussions	Editorial 🔒
Hobiciii	3451113310113	Leaderboard	Discussions	Editorial

Marie invented a Time Machine and wants to test it by time-traveling to visit Russia on the Day of the Programmer (the **256**th day of the year) during a year in the inclusive range from **1700** to **2700**.

From 1700 to 1917, Russia's official calendar was the Julian calendar; since 1919 they used the Gregorian calendar system. The transition from the Julian to Gregorian calendar system occurred in 1918, when the next day after January 31^{st} was February 14^{th} . This means that in 1918, February 14^{th} was the 32^{nd} day of the year in Russia.

In both calendar systems, February is the only month with a variable amount of days; it has **29** days during a *leap year*, and **28** days during all other years. In the Julian calendar, leap years are divisible by **4**; in the Gregorian calendar, leap years are either of the following:

- Divisible by 400.
- Divisible by 4 and not divisible by 100.

Given a year, y, find the date of the 256^{th} day of that year according to the official Russian calendar during that year. Then print it in the format dd.mm.yyyy, where dd is the two-digit day, mm is the two-digit month, and yyyy is y.

Input Format

A single integer denoting year y.

Constraints

• $1700 \le y \le 2700$

Output Format

Print the full date of *Day of the Programmer* during year y in the format dd.mm.yyyy, where dd is the two-digit day, mm is the two-digit month, and yyyy is y.

Sample Input 0

2017

Sample Output 0

13.09.2017

Explanation 0

In the year y=2017, January has 31 days, February has 28 days, March has 31 days, April has 30 days, May has 31 days, June has 30 days, July has 31 days, and August has 31 days. When we sum the total number of days in the first eight months, we get

31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 = 243. Day of the Programmer is the 256^{th} day, so then calculate 256 - 243 = 13 to determine that it falls on day 13 of the 9^{th} month (September). We then print the full date in the specified format, which is 13.09.2017.

Sample Input 1

15/11/2017 HackerRank

2016

Sample Output 1

12.09.2016

Explanation 1

Year y=2016 is a leap year, so February has 29 days but all the other months have the same number of days as in 2017. When we sum the total number of days in the first eight months, we get 31+29+31+30+31+30+31+31=244. Day of the Programmer is the 256^{th} day, so then calculate 256-244=12 to determine that it falls on day 12 of the 9^{th} month (September). We then print the full date in the specified format, which is 12.09.2016.

F in
Submissions:24918
Max Score:15
Difficulty: Easy
Rate This Challenge:
☆☆☆☆☆



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