
Day of the week

P79567_en

Given a date, can you compute its corresponding day of the week? For instance, the day of the week of the date 2 October 2024 is Wednesday.

Remember that the days of the week are Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday. Also, common years have 365 days. At most once every four years, we have a leap year of 366 days. 2024 is a leap year.

These are the months and their lengths:

- January: 31 days
- February: 28 days in common years and 29 days in leap years
- March: 31 days
- April: 30 days
- May: 31 days
- June: 30 days
- July: 31 days
- August: 31 days
- September: 30 days
- October: 31 days
- November: 30 days
- December: 31 days

Input

Input consists of several dates, all in the format *day month year*. All years are between 2021 and 2027, and all dates are correct.

Output

For every given date, print its day of the week.

Sample input 1

```
2 October 2024
31 December 2027
29 February 2024
```

Sample output 1

```
Wednesday
Friday
Thursday
```

Problem information

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