

Experiment 02 - Exercise 07: Next Date in Calendar

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Objective

Take a date as input and display the next date in the calendar.

Input

day, month, year.

Output

The next valid date (day, month, year).

Approach

- Validate the input date using month length (and leap year rule for February).
- Increase day by 1.
- If day exceeds days in that month, set day=1 and increase month.
- If month exceeds 12, set month=1 and increase year.

Time Complexity

$O(1)$.