Problem E
Palindromic Dates

Input File: E.IN
Output File: standard output
Program Source File: E.C, E.CPP, E.JAVA

A date is said to be palindromic if, when written in the form "`YearMMDD`", the result is a palindrome (a number that has the same value regardless if we read it left-to-right or right-to-left). For example, the date "`January 1ˢᵗ, 1`" is palindromic since it would be written as "`10101`"; "`December 1ˢᵗ, 1021`" is palindromic too, since it would be written as "`10211201`".

Given a date, you are required to find the next valid date (in chronological order) that is palindromic (according to the definition of "palindromic date" that was given in the previous paragraph). For the purpose of this problem, a date is considered valid if the year is between `1` and `2147483647`, the month is between `1` and `12`, the day is at least `1` and:

- for months `1,3,5,7,8,10,12` – the day is not greater than `31`
- for months `4,6,9,11` – the day is not greater than `30`
- for month `2`, the day is not greater than `29`, and can be `29` only during leap years. A year is considered "leap year" if it is divisible by `400`, or is divisible by `4` but not by `100`.

The input file contains one date per line: thee numbers separated by the character '`/`', representing (in order) the day, month and year. For example, `July 4ᵗʰ 2011` would be written as "`04/07/2011`" (or `4/07/2011`, or `4/7/2011`). The last line in the input file is empty.

The output file shall contain the next valid palindromic date for each date in the input file, one date per line. The date format in the output file is `DD/MM/Year` – i.e. the separator character is '`/`', the year's first digit must never be `0`, and you must always use two digits for day and month (use `01` instead of `1`, `02` instead of `2` etc.).
It is guaranteed that all input dates are valid, and that for all input dates there is a "next valid palindromic date".

Sample input	Sample output
1/1/1 12/11/1 01/06/138048967	01/02/1 11/12/1 31/08/138048984