Easter Sunday P32323_en

Write a program that prints which day is Easter Sunday of a given year (remember that Easter Sunday is a mobile holiday that corresponds to the first Sunday after the first full moon of the spring.

To solve this problem, use the *Gauss method*. The Gauss method to find the day (D) and the month (M) that corresponds to the Easter Sunday of a year (Y) is:

- Is computed (div indicates integer division and mod indicates the remainder of the integer division):
  1. $k := Y$ div 100
  2. $y := Y$ mod 19
  3. $b := Y$ mod 4
  4. $c := Y$ mod 7
  5. $q := k$ div 4
  6. $p := (13 + 8k)$ div 25
  7. $m := (15 - p + k - q)$ mod 30
  8. $d := (19y + m)$ mod 30
  9. $n := (4 + k - q)$ mod 7
  10. $e := (2b + 4c + 6d + n)$ mod 7
- When $d + e \leq 9$, then $D := 22 + d + e$ and $M := 3$.
- When $d = 29$ and $e = 6$, then $D := 19$ and $M := 4$.
- When $d = 28$ and $e = 6$ and $y > 10$, then $D := 18$ and $M := 4$.
- Otherwise, $D := d + e - 9$ and $M := 4$.

Input

Input is a year (integer number) between 1800 and 9999.

Output

The output is two integer numbers in a line, separated by a slash. The first is the day and the second is the month which correspond to the Easter Sunday of the given year using Gauss method.

Sample input 1	Sample output 1
2006	16/4

Sample input 2

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1999
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Sample output 2

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4/4
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Problem information

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