Easter Sundays P35547_en

Easter Sunday is a mobile holiday corresponding to the first Sunday after the first full moon of the spring. Write a program to compute the day D and the month M of the Easter Sunday of every given year Y.

Below, `:=` indicates assignment, `div` indicates integer division, and `mod` indicates the remainder of the integer division. To solve this problem, use the Gauss method:

- Compute
  1. $k := Y$ div 100
  2. $x := Y$ mod 19
  3. $b := Y$ mod 4
  4. $c := Y$ mod 7
  5. $q := k$ div 4
  6. $p := (13 + 8k)$ div 25
  7. $y := (15 - p + k - q)$ mod 30
  8. $z := (19x + y)$ mod 30
  9. $n := (4 + k - q)$ mod 7
  10. $e := (2b + 4c + 6z + n)$ mod 7
- If $z + e \leq 9$, then $D := 22 + z + e$ and $M := 3$.
- Otherwise, if $z = 29$ and $e = 6$, then $D := 19$ and $M := 4$.
- Otherwise, if $z = 28$ and $e = 6$ and $x > 10$, then $D := 18$ and $M := 4$.
- Otherwise, $D := z + e - 9$ and $M := 4$.

Input

Input consists of several natural numbers between 1800 and 9999.

Output

Print the day and the month of the Easter Sunday of each year.

Sample input 1

```
2006
1999
```

Sample output 1

```
16/4
4/4
```

Problem information

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