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## Valid dates

P58459\_en

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Write a function that tells if the date defined by a day  $d$ , month  $m$  and year  $y$  is valid or not.

### Interface

C++	<b>bool</b> <i>is_valid_date</i> ( <b>int</b> $d$ , <b>int</b> $m$ , <b>int</b> $y$ );
C	<b>int</b> <i>is_valid_date</i> ( <b>int</b> $d$ , <b>int</b> $m$ , <b>int</b> $y$ );
Java	<b>public static boolean</b> <i>isValidDate</i> ( <b>int</b> $d$ , <b>int</b> $m$ , <b>int</b> $y$ );
Python	<i>is_valid_date</i> ( $d$ , $m$ , $y$ ) # returns bool <i>is_valid_date</i> ( $d$ : <i>int</i> , $m$ : <i>int</i> , $y$ : <i>int</i> ) $\rightarrow$ <i>bool</i>

To write this function, it is convenient to use the function for leap years of the exercise .

### Precondition

The parameter  $y$  is between 1800 and 9999, both included.

### Observation

You only need to submit the required procedure; your main program will be ignored.

### Problem information

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