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

To write this function, it is convenient to use the function for leap years of the exercise **problem://problemsjutyfuncio.pbm**.

### 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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