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

**Interface**

C++
```
bool isValidDate(int d, int m, int y);
```

C
```
int isValidDate(int d, int m, int y);
```

Java
```
public static boolean isValidDate(int d, int m, int y);
```

Python
```
is_valid_date (d, m, y)  # returns bool
is_valid_date (d: int, m: int, y: int) -> bool
```

To write this function, it is convinient 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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Generation : 2023-07-14 18:08:33

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