Package 'jalcal'

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Title Conversion Between Jalali (Persian or Solar Hijri) and Gregorian

Type Package

Calendar Dates	
Description Jalali, also known as Persian, Solar Hijri and Hijri Shamsi calendar is the official calendar of Iran and Afghanistan. It begins on Nowruz, the March equinox, as determined by astronomical calculation and has years of 365 or 366 days. Adapting the algorithms in https://jdf.scr.ir/ , this package provides tools for converting the Jalali and Gregorian dates.	
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greg2jal

Convert Gregorian calendar date to Jalali calendar date

Description

Convert Gregorian calendar date to Jalali calendar date

Usage

```
greg2jal(date)
```

Arguments

date

An object of class Date specifying Gregorian date

Value

An integer vector consisting of the corresponding Jalali year, month and day

Author(s)

Abdollah Jalilian

Examples

```
greg2jal(base::Sys.Date())
```

greg2jal0

Convert Gregorian calendar date to Jalali calendar date

Description

Convert Gregorian calendar date to Jalali calendar date

Usage

```
greg2jal0(year, month, day)
```

Arguments

year	An integer specifying Gregorian year
month	An integer specifying Gregorian month
day	An integer specifying Gregorian day

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Value

An integer vector consisting of the corresponding Jalali year, month and day

Author(s)

Abdollah Jalilian

Examples

```
greg2jal0(622, 3, 21)
greg2jal0(1983, 9, 8)
```

isLeap

Determining whether a given year is leap year

Description

Determining whether a given year is leap year

Usage

```
isLeap(year, cal = "Gregorian")
```

Arguments

year An integer vector specifying given years

cal A character string specifying the calender type. Only 'Gregorian' and 'Jalali'

are implemented

Value

A logical vector of of the same length as year which indicates wheter given years are leap years or not

Author(s)

Abdollah Jalilian

Examples

```
isLeap(1362, 'Jalali')
isLeap(c(2000, 2100))
```

jal2greg

jal2greg	Convert Jalali calendar date to Gregorian calendar date

Description

Convert Jalali calendar date to Gregorian calendar date

Usage

```
jal2greg(year, month, day, asDate = TRUE)
```

Arguments

year An integer specifying Jalali year
month An integer specifying Jalali month
day An integer specifying Jalali day

asDate A logical flag indicating whether the output Gregorian date must be in date for-

mat

Value

If asDate = TRUE, the default case, an object of the Date class in R, otherwise an integer vector consisting of the Gregorian year, month and day

Author(s)

Abdollah Jalilian

Examples

```
jal2greg(1, 1, 1)
jal2greg(1362, 6, 17)
jal2greg(1362, 6, 17, asDate=FALSE)
```

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