Package 'FRACTION'

May 7, 2026

Type Package

Title Numeric Number into Fraction

Version 1.1.1

Date 2023-08-21

Author OuYang Ming <oula2004@163.com>

Maintainer OuYang Ming <oula2004@163.com>

Description Turn numeric,data.frame,matrix into fraction form.

License GPL-2

Encoding UTF-8

Repository CRAN

Date/Publication 2023-08-24 05:50:02 UTC

NeedsCompilation no

Contents

`FRACTION-package` *Numeric Number into Fraction*

Description

Turn numeric,data.frame,matrix into fraction form.

Details

Package:	FRACTION
Type:	Package
Version:	1.1.1
Date:	2023-08-21
License:	licenseInfo

Author(s)

OuYang Ming Maintainer: OuYang Ming <oula2004@163.com>

References

Friedrich Leisch, 2008 Creating R packages: A Tutorial Zhang Jinlong, How to create R package under Windows FAQ in R-PROJECT

Examples

```
r=8
is.wholenumber(r)
a=14
b=32
c=gcd(a,b)
x=1/6
fra(x)
y=c(1/2,1/3,1/9)
fra.m(y)
z=data.frame(1/2)
fra.m(z)
q=matrix(1)
fra.m(q)
```

`fra` *FRACTION for number*

Description

to turn numeric number into fraction form

Usage

```
fra(x, j = 7)
```

Arguments

x	a numeric number
j	Decimal digits default is 7

Value

Return a charerter which shows the fraction equals x, x is a number

Author(s)

OuYang Ming

References

Friedrich Leisch, 2008 Creating R packages: A Tutorial Zhang Jinlong, How to create R package under Windows

Examples

```
x=1/3
fra(x)
```

---

fra.m *FRACTION for vector, matrix or data.frame*

Description

to turn vector, data.frame, matrix into fraction form

Usage

```
fra.m(x)
```

Arguments

x	Vector, matrix or data.frame which contains numeric number

Value

Return a charerter which shows the fraction equals x, x is a data.frame or matrix or vector

Author(s)

OuYang Ming

References

Friedrich Leisch, 2008 Creating R packages: A Tutorial Zhang Jinlong, How to create R package under Windows

Examples

```
y=c(1/2,1/3,1/9)
fra.m(y)
z=data.frame(1/2)
fra.m(z)
q=matrix(1)
fra.m(q)
```

---

gcd *Greatest common divisor*

Description

Calculate the greatest common divisor between two numbers

Usage

```
gcd(a, b)
```

Arguments

a	a is greater than 0 while a is whole number
b	b is greater than 0 while b is whole number

Details

Ues Euclidean algorithm

Value

the greatest common divisor between a and b

Author(s)

OuYang Ming

References

Friedrich Leisch, 2008 Creating R packages: A Tutorial Zhang Jinlong, How to create R package under Windows FAQ in R-PROJECT

Examples

```
a=14
b=32
c=gcd(a,b)
```

`is.wholenumber` *To judge the number is whole number or not*

Description

To judge the number is whole number or not

Usage

```
is.wholenumber(x, tol = .Machine$double.eps^0.5)
```

Arguments

`x`	x is a numeric number
`tol`	Define in function

Value

Return TRUE or FALSE to judge x is whole number or not

Author(s)

OuYang Ming

References

Friedrich Leisch, 2008 Creating R packages: A Tutorial Zhang Jinlong, How to create R package under Windows FAQ in R-PROJECT

Examples

```
r=8
is.wholenumber(r)
```

Index