

Package: ymq (via r-universe)

January 10, 2025

Title Year Months and Quarters

Version 0.1.0

Description Operators to manipulate integers representing year months in the form YYYYMM, and year quarters in the form YYYYQQ.

Depends R (>= 3.5)

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Encoding UTF-8

URL <https://github.com/marberts/ymq>

Repository <https://marberts.r-universe.dev>

RemoteUrl <https://github.com/marberts/ymq>

RemoteRef HEAD

RemoteSha dddceefb81e558ab1dd83a0cd30b62c227b9b8b6

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ymq-package	<i>Year Months and Quarters</i>
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Description

Operators to manipulate integers representing year months in the form YYYYMM, and year quarters in the form YYYYQQ.

Author(s)

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See Also

<https://github.com/marberts/yqm>

 convert

Convert YYYYMM to YYYYQQ.

Description

Use `m2q()` to turn YYYYMM into YYYYQQ and `q2m()` to turn YYYYQQ into the first YYYYMM.

Usage

```
m2q(x)
q2m(x)
```

Arguments

`x` An integer vector of year months of the form YYYYMM, or year quarters of the form YYYYQQ.

Value

For `q2m()`, an integer vector of the form YYYYMM; for `m2q()`, an integer vector of the form YYYYQQ.

Examples

```
m2q(202103)
q2m(202103)

# Represent as the third month of the quarter
q2m(202103) %+m% 2L

# Represent as YYYYMMDD
q2m(202103) * 100L + 1L
```

digits	<i>Number of integer digits</i>
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Description

Count the number of integer digits in a number.

Usage

```
digits(x)
```

Arguments

x A numeric vector.

Value

An integer vector giving the number of integer digits in x.

Examples

```
digits(100)
digits(100.1)
digits(-0.1)
```

infix	<i>Infix operators to work with integers representing year months (YYYYMM) and year quarters (YYYYQQ).</i>
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Description

- %+m% and %-m% add/subtract months for year months.
- %m-m% finds the difference (in months) between year months.
- %m:m% generates a sequence of year months.
- Switching 'm' for 'q' does the same for year quarters.

Usage

```
e1 %+m% e2
e1 %-m% e2
e1 %m-m% e2
e1 %m:m% e2

e1 %+q% e2
e1 %-q% e2
e1 %q-q% e2
e1 %q:q% e2
```

Arguments

e1, e2 An integer vector of year months of the form YYYYMM, or year quarters of the form YYYYQQ.

Value

An integer vector of the form YYYYMM, or YYYYQQ.

Examples

```
# Add or subtract months/quarters
202101 %+m% 13
202101 %-m% 13
202101 %+q% 5
202101 %-q% 5

# Find the difference
202101 %m-m% 202202
202202 %q-q% 202101

# Make a sequence
202101 %m:m% 202202
202101 %q:q% 202202
```

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