

**isrealvalues()** — Whether matrix contains only real values

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## Description

`isrealvalues(X)` returns 1 if  $X$  is of storage type real or if  $X$  is of storage type complex and all elements are real or missing; 0 is returned otherwise.

## Syntax

*real scalar* `isrealvalues(numeric matrix X)`

## Remarks and examples

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`isrealvalues(X)` is logically equivalent to `X==Re(X)` but is significantly faster and requires less memory.

## Conformability

`isrealvalues(X)`:

*X*:  $r \times c$   
*result*:  $1 \times 1$

## Diagnostics

`isrealvalues(X)` returns 1 if  $X$  is void and complex.

## Also see

[M-5] [isreal\(\)](#) — Storage type of matrix

[M-4] [utility](#) — Matrix utility functions