isrealvalues() — Whether matrix contains only real values

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

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

Conformability

isrealvalues(X):

\[ X: \quad r \times c \]

\[ result: \quad 1 \times 1 \]

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