

**diag0cnt()** — Count zeros on diagonal

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## Syntax

*real scalar* `diag0cnt(real matrix X)`

## Description

`diag0cnt(X)` returns the number of principal diagonal elements of  $X$  that are 0.

## Remarks and examples

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`diag0cnt()` is often used after `invSYM()` (see [\[M-5\] invSYM\(\)](#)) to count the number of columns dropped because of collinearity.

## Conformability

`diag0cnt(X)`:

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

## Diagnostics

`diag0cnt(X)` returns 0 if  $X$  is void.

## Also see

[\[M-5\] invSYM\(\)](#) — Symmetric real matrix inversion

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