

**diag0cnt()** — Count zeros on diagonal[Description  
Diagnostics](#)[Syntax  
Also see](#)[Remarks and examples](#)[Conformability](#)

## Description

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

## Syntax

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

## Remarks and examples

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`diag0cnt()` is often used after `invsym()` (see [\[M-5\] invsym\(\)](#)) to count the number of columns omitted 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