

rows() — Number of rows and number of columns

Syntax	Description	Remarks and examples	Conformability
Diagnostics	Also see		

Syntax

real scalar `rows(transmorphic matrix P)`

real scalar `cols(transmorphic matrix P)`

real scalar `length(transmorphic matrix P)`

Description

`rows(P)` returns the number of rows of P .

`cols(P)` returns the number of columns of P .

`length(P)` returns `rows(P)*cols(P)`.

Remarks and examples

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`length(P)` is typically used with vectors, as in

```
for (i=1; i<=length(x); i++) {
    ... x[i] ...
}
```

Conformability

`rows(P)`, `cols(P)`, `length(P)`:

<i>P:</i>	$r \times c$
<i>result:</i>	1×1

Diagnostics

`rows(P)`, `cols(P)`, and `length(P)` return a result that is greater than or equal to zero.

Also see

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