

rows() — Number of rows and number of columns

Description Diagnostics	Syntax Also see	Remarks and examples	Conformability
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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)`.

Syntax

real scalar `rows(transmorphic matrix P)`

real scalar `cols(transmorphic matrix P)`

real scalar `length(transmorphic matrix 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)`:

P: $r \times c$
result: 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

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