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rowshape() — Reshape matrix

Description Syntax Remarks and examples Conformability Diagnostics Also see

Description

rowshape (T, r) returns T transformed into a matrix with trunc (r) rows.

colshape(T, c) returns T having trunc(c) columns.

In both cases, elements are assigned sequentially with the column index varying more rapidly. See [M-5] vec() for a function that varies the row index more rapidly.

Syntax

```
transmorphic matrix
                    rowshape(transmorphic matrix T, real scalar r)
                    colshape(transmorphic matrix T, real scalar c)
transmorphic matrix
```

Remarks and examples

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Remarks are presented under the following headings:

Example of rowshape() Example of colshape()

Example of rowshape()

```
: A
        1
               2
                     3
                           4
  1
       11
             12
                    13
                           14
  2
       21
             22
                    23
                          24
  3
       31
             32
                    33
                          34
       41
                    43
                           44
```

: rowshape(A,2)

Example of colshape()

:	<pre>colshape(A,</pre>			2)
		1	2	
				7
	1	11	12	
	2	13	14	1
	3	21	22	1
	4	23	24	İ
	5	31	32	1
	6	33	34	1
	7	41	42	1
	8	43	44	ı
		1		1

Conformability

```
rowshape(T, r):
T: \quad r_0 \times c_0
r: \quad 1 \times 1
result: \quad r \times r_0 c_0 / r
colshape(<math>T, c):
T: \quad r_0 \times c_0
c: \quad 1 \times 1
result: \quad r_0 c_0 / c \times c
```

Diagnostics

```
Let r_0 and c_0 be the number of rows and columns of T.
rowshape() aborts with error if r_0 \times c_0 is not evenly divisible by trunc(r).
```

colshape() aborts with error if $r_0 \times c_0$ is not evenly divisible by trunc(c).

Also see

[M-4] **Manipulation** — Matrix manipulation

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