

## Group 6

**J symbol (comma-dot):**  $.,$

**Monadic case:**

Name: *item-ravel*

Rank:  $_$  (infinite/unbounded) – applies to the entire array  $y$

Definition (simple):  $., y$  ravel the items of  $y$  (i.e. converts each item of  $y$  to a vector/list).

Definition (precise):  $., y$  if  $y$  is an atom/scalar then  $., y$  is  $1\ 1\ \$y$  (i.e. a matrix with one element); otherwise it is a matrix whose rows are the vectors formed by raveling the items of  $y$ .

Please also include *explanations* for your answers to some of the following questions:

What is the item-ravel of a scalar, vector, matrix, rank-3 array?

What is the item-ravel of an empty list?

**Dyadic case:**

Name: *stitch*

Rank:  $_$  (left);  $_$  (right) – applies to the entire array on the left and right hand side

Definition:  $x\ ,.\ y$  the items of  $x$  and stitched to the corresponding items of  $y$ .

Please also include *explanations* for your answers to some of the following questions:

What is the stitch of two scalars, vectors, matrices?

What is the stitch of a scalar with a vector, vector with a matrix, etc?

What can  $x$  and  $y$  not be stitched?