

APL Reference

<i>Operation</i>	<i>Expression</i>	<i>Value</i>
Sample data	A ; a 2,3-matrix	1 2 3 4 5 6
	V ; a 3-vector	2 4 6
	C ; a logical 2-vector	1 0
	D ; a logical 3-vector	1 0 1
Arithmetic	A *@ A	1 4 9 16 25 36
	V -@ (newint 1)	1 3 5
Relational	A >@ (newint 4)	0 0 0
		0 1 1
Reduction	!+ V	12
	maxR A	3 6
Compression	D % V	2 6
	C % A	1 2 3 (a 1,3-matrix)
Shape	shape A	2 3
Ravelling	ravel A	1 2 3 4 5 6
	ravel (newint 1)	1
Restructuring	rho (shape A) V	2 4 6 2 4 6
	rho (shape V) C	1 0 1
Catenation	A ^@ C	1 2 3 4 5 6 1 0
Index generation	indx (newint 5)	1 2 3 4 5
Transposition	trans A	1 4
		2 5
		3 6
Subscripting	V @@ (indx (newint 2))	2 4
	A @@ (newint 1)	1 2 3 (a 1,3-matrix)
	(trans A) @@ (indx (newint 2))	1 4 2 5