

## Backus' notation of secondary functions

AND-ALL:  $x \equiv x$  is a list of all  $T_s \rightarrow T$ ;  
 $x$  is a list of atleast one non  $T \rightarrow F$ ;  
 $\perp$

EQUAL-ALL:  $x \equiv x$  is a list of equal objects  $\rightarrow T$ ;  
 $x$  is a list of non equal objects  $\rightarrow F$ ;  
 $\perp$

MMINUS:  $z \equiv z = \langle x, y \rangle$  and  $x, y$  are matrices of the same shape  $\rightarrow$  matrix difference of  $x$  and  $y$ , defined as  $x - y$ ;  
 $\perp$

SQUARE?:  $x \equiv x$  is a matrix of equal no. of rows and columns  $\rightarrow T$ ;  
 $x \neq \perp \rightarrow F$ ;  
 $\perp$