Phase 11 c Function Type Arrows

Total
function
$X \rightarrow Y$

Partial
function
$N \nrightarrow N$

Total
injection
$A \rightarrowtail B$

Partial
injection
$X \rightarrowtail Y$

Total
surjection
$A \twoheadrightarrow B$

Partial
surjection
$X \twoheadrightarrow Y$

Bijection
$A \rightarrowtail\twoheadrightarrow B$

Higher
order
function
type
$N \rightarrow N \rightarrow N$

Right
associative

function
types
$A \rightarrow (B \rightarrow C)$
$X \rightarrow (Y \rightarrow Z)$

$\big|$ $square : N \rightarrow N$ $pdiv : N \nrightarrow N$ $bmap : A \rightarrowtail\!\!\!\rightarrow B$