









Statements	$\Psi \mid \Theta \mid \Delta \mid \Gamma \mid \Gamma \vdash s : \Gamma$
$\frac{ - \Psi \mid \Theta \mid \Delta \mid \Gamma \mid \hat{\Gamma} \vdash s : \hat{\Gamma}', \nu : \tau, \hat{\Gamma}'' }{ \Psi \mid \Theta \mid \Delta \mid \Gamma \mid \hat{\Gamma} \vdash s : \hat{\Gamma}', \hat{\Gamma}'' }$	
$\begin{array}{c c} \text{for all } i,  \Psi \mid \Theta \mid \Delta \mid \Gamma \mid \hat{\Gamma}_{i-1} \vdash s_i : \hat{\Gamma}_i \\ \hline \Psi \mid \Theta \mid \Delta \mid \Gamma \mid \hat{\Gamma}_0 \vdash \{s_1 \dots s_n\} : \hat{\Gamma}_n \end{array}$	
eq:product of the second state of the	$\begin{split} \underline{\Psi} \mid \underline{\Theta} \mid \underline{\Delta} \mid \Gamma, \hat{\Gamma}, \nu : \tau, \hat{\Gamma}' \vdash e : \tau' \\ \underline{\Theta} \mid \underline{\Delta} \mid \Gamma \mid \hat{\Gamma}, \nu : \tau, \hat{\Gamma}' \vdash \nu \coloneqq e ; : \hat{\Gamma}, \nu : \tau', \hat{\Gamma}' \end{split}$
$\frac{ \begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\frac{ \Psi \mid \Theta \mid \Delta \mid \Gamma, \Gamma \vdash e : \texttt{Boolean} \rangle  \Psi \mid \Theta \mid \Delta \mid \Gamma \mid \Gamma \vdash s : \Gamma \\ \overline{\Psi \mid \Theta \mid \Delta \mid \Gamma \mid \Gamma \vdash while (e) s : \Gamma }$	
$\frac{\Psi \mid \Theta \mid \Delta \mid \Gamma, \Gamma \vdash e: Iterable(\tau)  \Psi \mid \Theta \mid \Delta \mid \Gamma \mid \Gamma, \nu: \tau \vdash s: \Gamma}{\Psi \mid \Theta \mid \Delta \mid \Gamma \mid \hat{\Gamma} \vdash for \left(\nu \text{ in } e\right) s: \hat{\Gamma}}$	

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Covariant Arrays (not in Cubex)

Contravariance (not in Cubex)