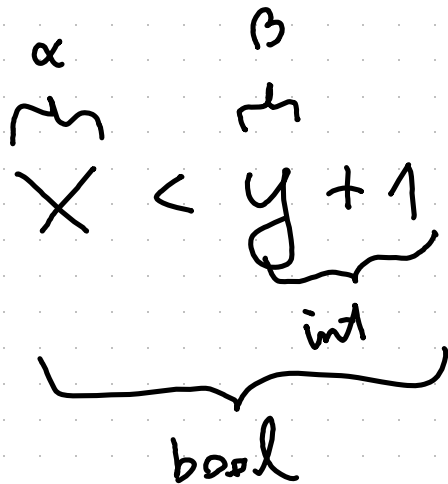


$x:\alpha$
 $y:\beta$



$\beta = \text{int}$
 $\alpha = \text{int}$

$$\frac{\Gamma \vdash x \Rightarrow \alpha \mid \emptyset \quad \frac{\Gamma \vdash y \Rightarrow \beta \mid \emptyset \quad \Gamma \vdash 1 \Rightarrow \text{int} \mid \emptyset}{\Gamma \vdash y + 1 \Rightarrow \text{int} \mid \beta = \text{int}, \text{int} = \text{int}}}{\underbrace{\Gamma \vdash x:\alpha, y:\beta}_{\Gamma} \vdash x < y + 1 \Rightarrow \text{bool} \mid \alpha = \text{int}, \text{int} = \text{int}, \beta = \text{int}, \text{int} = \text{int}}$$

KONTEXT

$b:\alpha$

$x:\gamma$

ENVACE

$\alpha = \text{bool}, \gamma = \text{int}$

$\lambda b. \lambda x. \text{if } b \text{ then } x \text{ else } 0$

$\alpha \quad \gamma \quad \text{int}$

$\gamma \rightarrow \gamma$

$\alpha \rightarrow (\gamma \rightarrow \gamma)$

$f:\beta$
 $x:\delta$

$$\beta = \delta \rightarrow \eta$$

$$\beta = \eta \rightarrow \phi$$

$$\begin{array}{c}
 \phi \\
 \underbrace{\hspace{1.5cm}} \\
 \eta \\
 \underbrace{\hspace{1.5cm}} \\
 \lambda f. \lambda x. \underbrace{f \left(\underbrace{f}_{\beta} \underbrace{x}_{\delta} \right)}_{\delta \rightarrow \phi} \\
 \underbrace{\hspace{2.5cm}} \\
 \beta \rightarrow (\delta \rightarrow \phi)
 \end{array}$$