$termvar$, x term variable
$typvar$, X type variable

t	::=			term
	|	x		variable
	|	$\lambda\, x\, .\, t$	bind x in t	abstraction
	|	$t\, t'$		application
	|	$(\, t\,)$	S	
	|	$\{\, t\, /\, x\, \}\, t'$	M	
v	::=			value
	|	$\lambda\, x\, .\, t$		abstraction
T	::=			type
	|	X		variable
	|	$T \rightarrow T'$		function
	|	$(\, T\,)$	S	
Γ	::=			type environment
	|	**empty**		
	|	$\Gamma\, ,\, x\, :\, T$		
$terminals$	::=			
	|	λ		
	|	$\longrightarrow$		
	|	$\rightarrow$		
	|	$\vdash$		
	|	$\in$		
$formula$	::=			
	|	$judgement$		
	|	**not** $(\, formula\,)$		
	|	$x\, =\, x'$		
	|	$x\, :\, T\, \in\, \Gamma$		
$Jtype$	::=			
	|	$\Gamma \vdash t\, :\, T$		
Jop	::=			
	|	$t_1 \longrightarrow t_2$		t_1 reduces to t_2
$judgement$	::=			
	|	$Jtype$		
	|	Jop		
$user\_syntax$	::=			
	|	$termvar$		
	|	$typvar$		
	|	t		
	|	v		

$|$ T
$|$ Γ
$|$ *terminals*
$|$ *formula*

$\boxed{\Gamma \vdash t : T}$

$$\frac{x : T \in \Gamma}{\Gamma \vdash x : T} \quad \textsc{GtT\_value\_name}$$

$$\frac{\Gamma \vdash t : T_1 \to T_2 \qquad \Gamma \vdash t' : T_1}{\Gamma \vdash t\, t' : T_2} \quad \textsc{GtT\_apply}$$

$$\frac{\Gamma , x_1 : T_1 \vdash t : T}{\Gamma \vdash \lambda\, x_1 \,.\, t : T_1 \to T} \quad \textsc{GtT\_lambda}$$

$\boxed{t_1 \longrightarrow t_2}$ t_1 reduces to t_2

$$\frac{}{(\,\lambda\, x \,.\, t_{12}\,)\, v_2 \longrightarrow \{\, v_2 \,/\, x \,\}\, t_{12}} \quad \textsc{ax\_app}$$

$$\frac{t_1 \longrightarrow t_1'}{t_1\ t \longrightarrow t_1'\ t} \quad \textsc{ctx\_app\_fun}$$

$$\frac{t_1 \longrightarrow t_1'}{v\ t_1 \longrightarrow v\ t_1'} \quad \textsc{ctx\_app\_arg}$$

```
Definition rules:        6 good    0 bad
Definition rule clauses: 12 good    0 bad
```