Step	Expression	New Constraint	Unification Results	
1 \x y → i	f y == 0 then y else False	*Update Typing Environment		
2 \x y → i-	f y == 0 then y else False	t ₃ =Bool, t ₄ =t ₂ , t ₅ =t ₂	$t_3 = Bool$, $t_2 = t_4 = t_5$	Ø
$3 \ x y \rightarrow i$	f y == 0 then y else False	$t_6 = t_7 \rightarrow t_8 \rightarrow t_3$	$t_6=t_7 \rightarrow t_8 \rightarrow t_3$, $t_3=Bool$, $t_2=t_4=t_5$	Ø
4 \x y → i-	f y == 0 then y else False	t ₆ =t→t→Bool	$t_6=t_7 \rightarrow t_8 \rightarrow t_3$, $t_3=Bool$, $t_2=t_4=t_5$, $t_7=t_8$	Ø
5 \x y → i-	f y == 0 then y else False	t ₇ =t ₁	$t_6 = t_7 \rightarrow t_8 \rightarrow t_3$, $t_3 = Bool$, $t_2 = t_4 = t_5$, $t_7 = t_8 = t_1$	Ø
6 \x y → i-	f y == 0 then y else False	t ₈ =Int	$t_6=t_7 \rightarrow t_8 \rightarrow t_3$, $t_3=Bool$, $t_2=t_4=t_5$, $t_7=t_8=t_1=Int$	Ø
7 \x y → i-	f y == 0 then y else False	t ₄ =t ₁	t ₆ =t ₇ →t ₈ →t ₃ , t ₃ =Bool, t ₇ =t ₈ =t ₁ <mark>=t₂=t₄=t₅</mark> =Int	Ø
$8 \ x \ y \rightarrow i$	f y == 0 then y else False	t ₅ =Bool	$t_6 = t_7 \rightarrow t_8 \rightarrow t_3$, $t_3 = Bool$, $t_7 = t_8 = t_1 = t_2 = t_4 = t_5 = Int = Bool$	ol🕴

*Typing Environment $\Gamma = \{ x:: t_1 \rightarrow t_2, y:: t_1, (=):: t \rightarrow t \rightarrow Bool \}$