

型を $T ::= \text{Int} \mid (T, \dots, T) \rightarrow T$ で定義した (ty.rs 中の enum Ty) ところに, 2つの部分型付け

1. $(T'_1, \dots, T'_n) \rightarrow T <: ((T_1, \dots, T_m) \rightarrow T'_1, \dots, (T_1, \dots, T_m) \rightarrow T'_n) \rightarrow (T_1, \dots, T_m) \rightarrow T$

2. $T <: (T_1, \dots, T_m) \rightarrow T$

を導入する. たとえば $\text{id} : (\text{Int}) \rightarrow \text{Int}$, $\text{add} : (\text{Int}, \text{Int}) \rightarrow \text{Int}$ なので $\text{add}(\text{id}, 1)$ は

$$\frac{\frac{\text{add} : (\text{I}, \text{I}) \rightarrow \text{I} \quad \overline{(\text{I}, \text{I}) \rightarrow \text{I} <: ((\text{I}) \rightarrow \text{I}, (\text{I}) \rightarrow \text{I}) \rightarrow (\text{I}) \rightarrow \text{I}}^1}{\text{add} : ((\text{I}) \rightarrow \text{I}, (\text{I}) \rightarrow \text{I}) \rightarrow (\text{I}) \rightarrow \text{I}} \quad \text{id} : (\text{I}) \rightarrow \text{I} \quad \frac{1 : \text{I} \quad \overline{\text{I} <: (\text{I}) \rightarrow \text{I}}^2}{1 : (\text{I}) \rightarrow \text{I}}}{\text{add}(\text{id}, 1) : (\text{I}) \rightarrow \text{I}}$$

となる (Int が長いので I と書いた) .