

Regole Inferenza Esercitazione 5

Simone Spera e Otino Pio Santosuosso

Gennaio 2023

Contents

1	Regole di Inferenza Compilatori	2
1.1	RealConst	2
1.2	CharConst	2
1.3	StrCat	2
1.4	ReadOp	2
1.5	ReadOp No String	2
1.6	ReturnOp	2
1.7	ReturnOp Void	2

1 Regole di Inferenza Compilatori

1.1 RealConst

$\Gamma \vdash \text{real_const} : \text{float}$

1.2 CharConst

$\Gamma \vdash \text{char_const} : \text{string}$

1.3 StrCat

$$\frac{\Gamma \vdash e_1 : \text{id} \quad \Gamma \vdash e_1 : \text{string} \quad \Gamma \vdash e_2 : \text{string}}{\Gamma \vdash e_1 \& e_2 : \text{notype}}$$

1.4 ReadOp

$$\frac{\text{id}_1, \text{id}_2, \dots, \text{id}_n \in \Gamma \quad \Gamma \vdash \text{str} : \text{string}}{\Gamma \vdash \text{id}_1, \text{id}_2, \dots, \text{id}_n < - - \text{str} : \text{notype}}$$

1.5 ReadOp No String

$$\frac{\text{id}_1, \text{id}_2, \dots, \text{id}_n \in \Gamma}{\Gamma \vdash \text{id}_1, \text{id}_2, \dots, \text{id}_n < - - : \text{notype}}$$

1.6 ReturnOp

$$\frac{\Gamma \vdash f : \tau_1 \times \dots \times \tau_n \rightarrow \tau \quad \Gamma \vdash e_i : \tau_i^{i \in 1 \dots n} \quad \Gamma \vdash e_{ret} : \tau}{\Gamma \vdash f(e_1, \dots, e_n) \{ \text{return } e_{ret} \} : \text{notype}}$$

1.7 ReturnOp Void

$$\frac{\Gamma \vdash f : \tau_1 \times \dots \times \tau_n \rightarrow \text{notype} \quad \Gamma \vdash e_i : \tau_i^{i \in 1 \dots n}}{\Gamma \vdash f(e_1, \dots, e_n) \{ \text{return} \} : \text{notype}}$$