

$\frac{\Gamma \vdash e : \tau}{\Gamma \vdash \text{LISTMAKE}(e) : \tau \text{LIST}}$  Listmake } Introduction

$\frac{\Gamma \vdash e_1 : \tau \quad \Gamma \vdash e_2 : \tau \text{LIST}}{\Gamma \vdash \text{LISTCONS}(e) : \tau \text{LIST}}$  cons

$\frac{\Gamma \vdash e : \tau \text{LIST}}{\Gamma \vdash \text{FIRSTCAR}(e : es) : \tau}$  car } Elimination

$\frac{\Gamma \vdash e : \tau \text{LIST}}{\Gamma \vdash \text{LISTCDR}(e : es) : \tau \text{LIST}}$  cdr

$\frac{\Gamma \vdash e : \tau \text{LIST}}{\Gamma \vdash \text{LISTNULL}(e) : \text{Bool}}$  null