Coq F*
NuPRL Idris
LEAN

List : type => type List int : type

LIST LIBRARY IN 2 (KINDING)

IList: type

nil: IList

cons: int > IList > IList

hd: IList > int

tl: IList > IList

isnil: IList > bool

DEPENDENTLY TY	PED L 157	- LIBRARY	Super nat=Zero Succe of nat
{ ~ :=	st: na	t => ty	pe
γ :=	: _	ist O	,)
CONS : Thinat.iv	t → ILis	ZFN +1	List (succ n)
	nat =	₹ type	
hd: IIn:nat. tl: Tn:nat.	(List List	(suce n)	→ int → llistn
In:nat. (hd	^	_	
(hd n	+ (tl (succ n) [List ((such n)

sort. II n: not. / List n + / List n {m < n get: ITm: nat. The nat. (Less mn) > I List n - int Adjacent: TTm: nat. Less m (succ m) Inductive: I'm: nat. The 'nat. (Less m n) >

(Less m (succ n))

Ind 57 (Ind 56 (Ad; 5))

: Less 56

Less 58