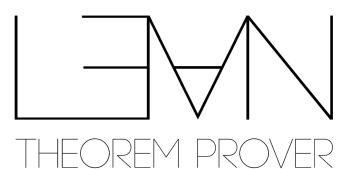
Coq Proof Assistant	LeanProver	same
Theorem	theorem	exact
admit	sorry	apply
reflexivity	rfl	intros
rewrite H	rw [H]	assumption
rewrite <- H	rw [<- H]	unfold
simpl	simp	contradiction
cdn	dsimp	constructor
auto	simp	induction
discriminate	contradiction	repeat
destruct, case, elim	cases	try
;	<;>	refine
-	\.	specialize
A B	(frist A B)	орозиндо
subst	subst_vars	
generalize dependent	revert	
remember	have	
split	apply And.intro	THEOR
symmetry	apply Eq.symm	

same	requires mathlib
exact	left, right
apply	ring
intros	exists (use)
assumption	lia (linarith)





```
theorem plus_assoc:
  forall x y z: Nat,
  (x+y)+z = x+(y+z) := by
intros x y z
induction x with
| zero => simp
| succ x IH =>
  repeat rw [Nat.succ_add]
  rw [IH]
```

```
theorem add_comm:
    V a b: Prop,
    a /\ b -> b /\ a := by
intros a b H
cases H with
| intro H1 H2 =>
    apply And intro
    case left => exact H2
    case right => exact H1
```

```
theorem add_comm':
    V a b: Prop,
    a /\ b -> b /\ a := by
intros a b H
have H1 := H.left
have H2: b := H.right
exact And.intro H2 H1
```

```
example (x y: Nat):
    succ x ≤ succ y
    <-> x ≤ y := by
apply Iff.intro
case mp =>
    apply ...
case mpr =>
    apply Nat.succ_le_succ
```