Chapter 1

Library basique

```
Require Import Bool.

Compute if true then 3 else 5.

Definition leibniz (a b:Set):Prop :=
  ∀ f:Set→Prop, f a → f b .

Theorem imp: ∀ (a b c : Prop), ((a→b) ∧ (a→ c)) → a → (b∧c) .
Proof.
intros.
destruct H.
split. apply H. assumption.
apply H1. assumption.
Qed.

Print imp.

Inductive entiers : Set := Zero : entiers | S : entiers → entiers .

Check entiers.

Check (S (S (S Zero))).
```