

> a.lean

```
variable (a b c d e : Nat)
variable (h1 : a = b)
variable (h2 : b = c + 1)
variable (h3 : c = d)
variable (h4 : e = 1 + d)
```

```
include h1 h2 h3 h4 in
theorem T2 :
```

```
  a = e      := calc
  a = b      := by rw [h1]
  _ = c + 1  := by rw [h2]
  _ = d + 1  := by rw [h3]
  _ = 1 + d  := by rw [Nat.add_comm]
  _ = e      := by rw [h4]
```