

> 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 T1 :
```

```
  a = e      := calc
```

```
  a = b      := h1
```

```
  _ = c + 1  := h2
```

```
  _ = d + 1  := congrArg Nat.succ h3
```

```
  _ = 1 + d  := Nat.add_comm d 1
```

```
  _ = e      := Eq.symm h4
```