

```

(P
  ⊢
  ((even
    (lst
      false
      (lst s (lst s (lst s z))))))
  ||
  (∧))

```

reduce

reduce

```

(P
  ⊢
  ((even (lst b_2 n_2)))
  ||
  (∧ (n_2 = (lst s z)) (b_2 = false)))

```

reduce

```

(P
  ⊢
  ((∀ (n_1) (n_3 ≠ (lst s (lst s n_1)))
    (n_3 ≠ z))
  ||
  (n_3 = (lst s (lst s (lst s z)))))

```

```

(P
  ⊢
  ((∀ (n_1) (n_6 ≠ (lst s (lst s n_1)))
    (n_6 ≠ z))
  ||
  (∧
    (n_6 = (lst s z))
    (n_2 = (lst s z))
    (b_2 = false)))

```

new constraint

```

(P
  ⊢
  ((n_6 ≠ z))
  ||
  (∧
    (n_6 = (lst s z))
    (n_2 = (lst s z))
    (b_2 = false)))

```

new constraint

```

(P
  ⊢
  ()
  ||
  (∧
    (n_6 = (lst s z))
    (n_2 = (lst s z))
    (b_2 = false)))

```