

Abstract States (4 in 00:00.079):

```
q0 ≡ and(¬(p0 ≡ h = tic), ¬(p1 ≡ ∃(i ∈ 1..n, j ∈ 1..n).(and(i ≠ j, bat(i) = ok, bat(j) = ok))))
q1 ≡ and(¬(p0 ≡ h = tic), p1 ≡ ∃(i ∈ 1..n, j ∈ 1..n).(and(i ≠ j, bat(i) = ok, bat(j) = ok)))
q2 ≡ and(p0 ≡ h = tic, ¬(p1 ≡ ∃(i ∈ 1..n, j ∈ 1..n).(and(i ≠ j, bat(i) = ok, bat(j) = ok))))
q3 ≡ and(p0 ≡ h = tic, p1 ≡ ∃(i ∈ 1..n, j ∈ 1..n).(and(i ≠ j, bat(i) = ok, bat(j) = ok)))
```