```
;; Proof of invariance by 1-induction
(define proof_inv
 (: (invariant I1 T1 P1)
  (invariant-implies I1 T1 PHI1 P1 implication_proof_1 (kinduction 1 I1 T1 PHI1
  _ _ base_proof_1 induction_proof_1))))

(check proof_inv)
```