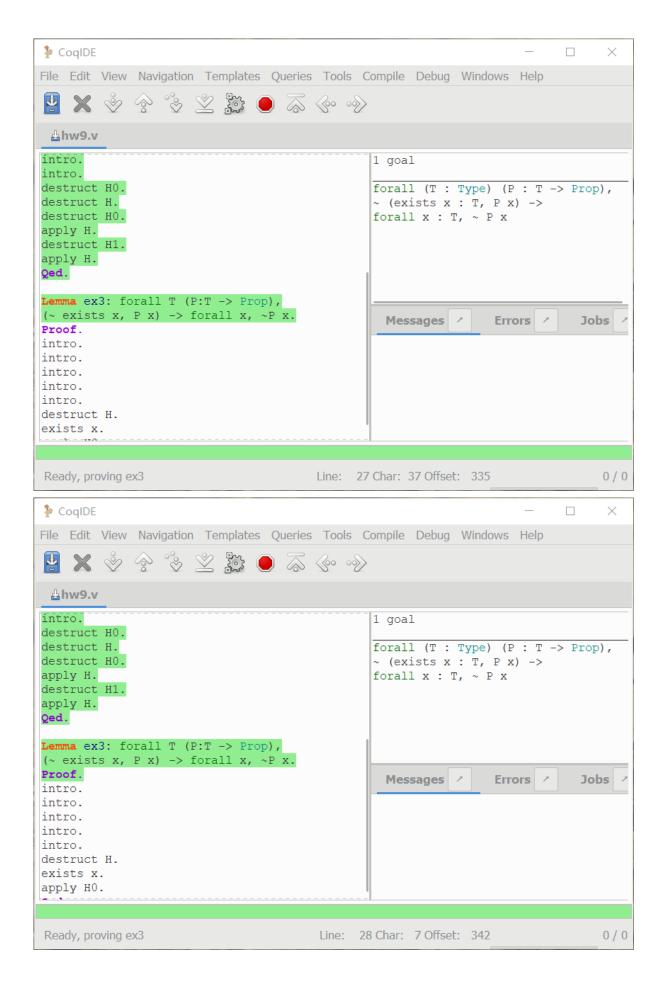
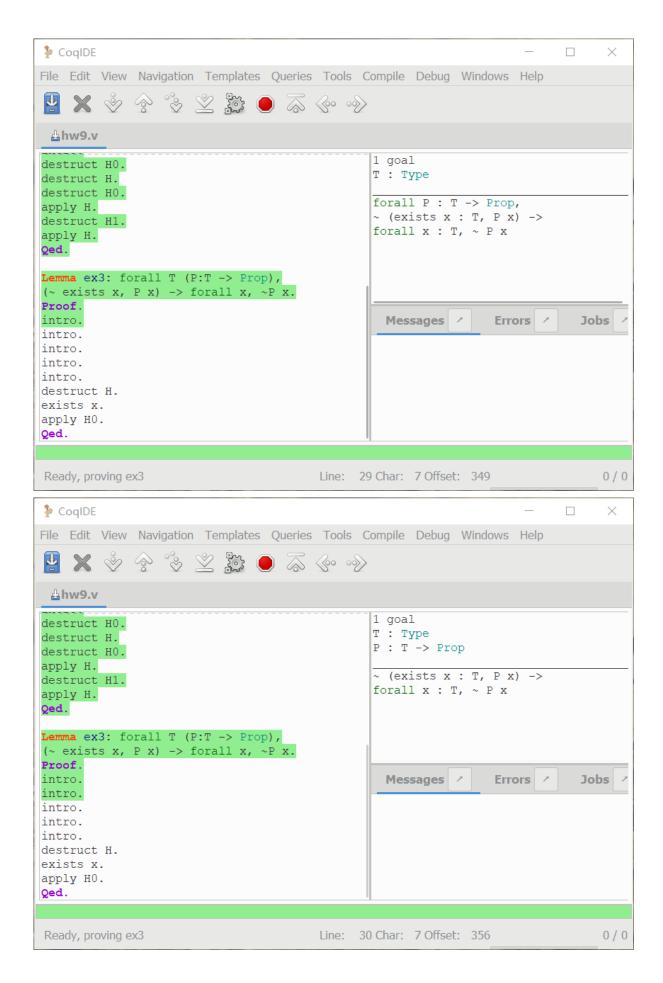
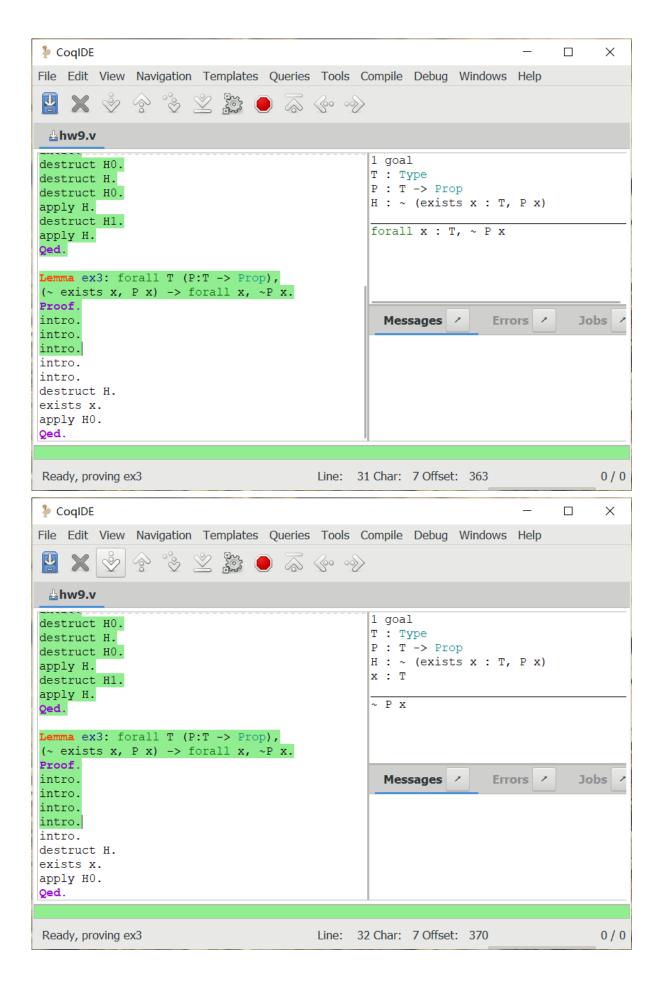


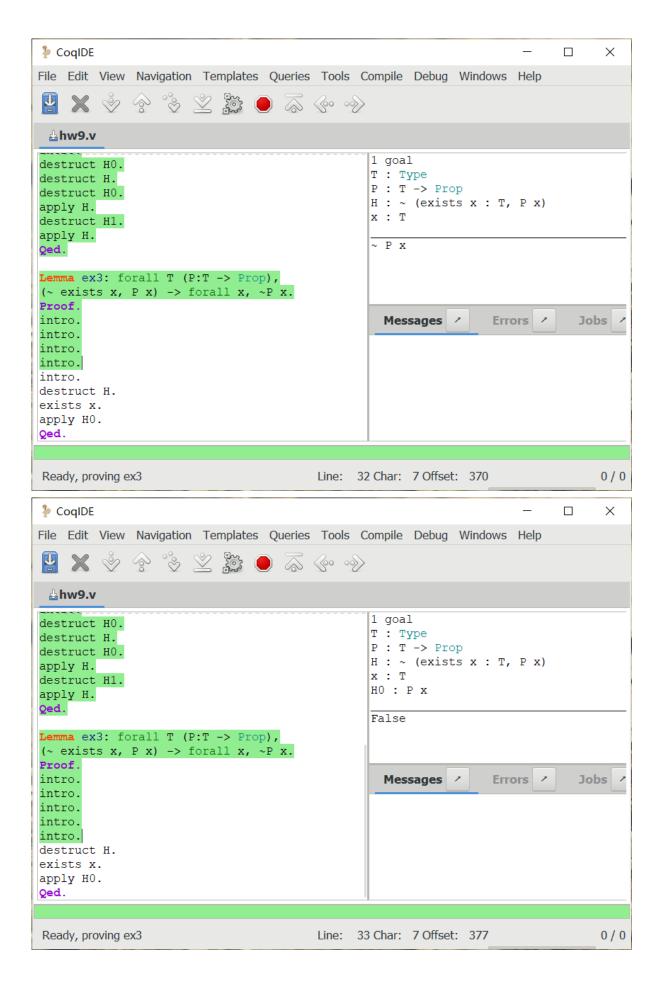
```
CogIDE
                                                                    File Edit View Navigation Templates Queries Tools Compile Debug Windows Help
åhw9.v
intro.
intro.
intro.
intro.
destruct H0.
destruct H.
destruct H0.
apply H.
destruct H1.
apply H.
Qed.
                                             Messages /
                                                           Errors /
                                                                      Jobs
Lemma ex3: forall T (P:T -> Prop),
(~ exists x, P x) -> forall x, \simP x.
Proof.
intro.
intro.
intro.
intro.
intro.
Ready
                                    Line: 24 Char: 5 Offset: 262
                                                                         0/0
```

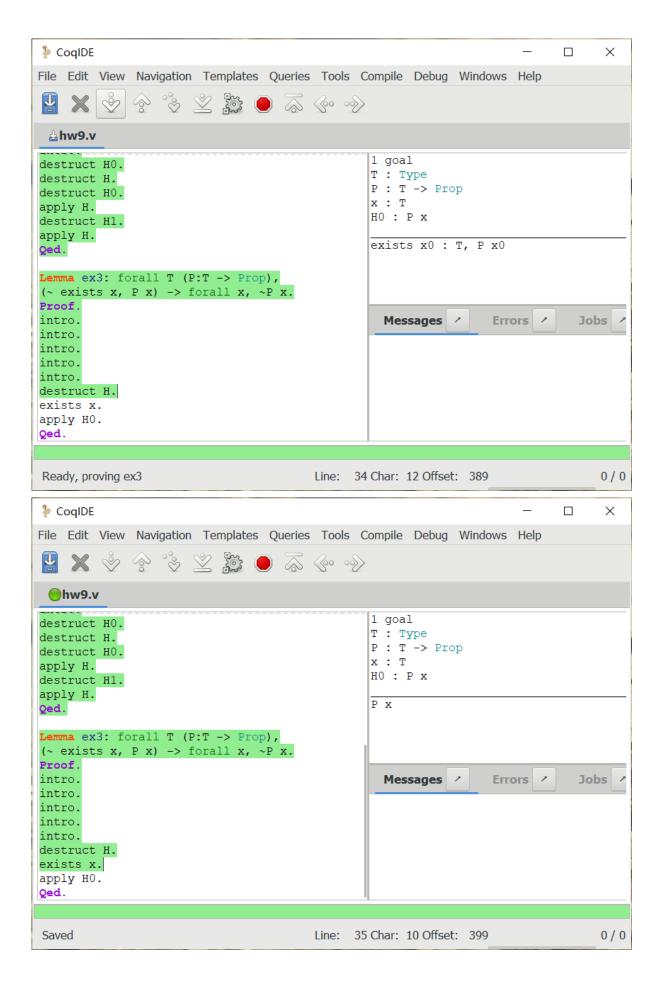
Q3

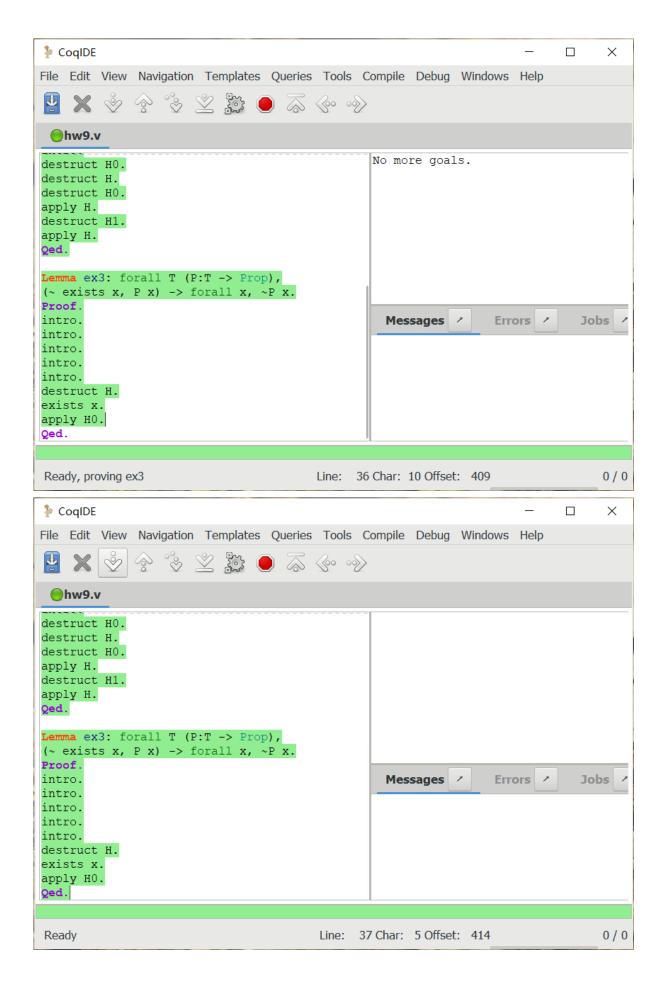












Appendix-source code Q1

```
Lemma ex1: forall A, ~~~A → ~A.

Proof.
intro.
intro.
destruct H.
intro.
destruct H.
apply H0.
Qed.
```

Q2

```
Lemma ex2: forall A B, A ∨ B → ~(~A ∧ ~B).

Proof.
intro.
intro.
intro.
destruct H0.
destruct H.
destruct H0.
apply H.
destruct H1.
apply H.
Qed.
```

Q3

```
Lemma ex3: forall T (P:T \rightarrow Prop), (~ exists x, P x) \rightarrow forall x, ~P x. Proof. intro. intro. intro. intro. intro. intro.
```

```
destruct H.
exists x.
apply H0.
Qed.
```