

Challenge

Spare Time Teaching

March 4, 2014

Problem

We all know what the negation of conjunction and disjunction is, but what about implication? Finish and prove this simple statement in Coq:

```
Require Import Setoid Classical.
```

```
Lemma not_impl :  $\forall A B : \text{Prop}$ ,  
~(A  $\rightarrow$  B)  $\leftrightarrow$  ???.
```

```
Proof.
```

```
(* put proof here *)
```

```
Qed.
```