Theorem 10.5 (Gries, p. 135)

Let IF = **if** $B_1 \rightarrow S_1$
[] …
[] $B_n \rightarrow S_n$
fi

Let Q be a proposition (that does not depend on i)[1] such that:

1. $Q \Rightarrow B_1 \vee \ldots \vee B_n$
2. $(\forall i : 1 \leq i < n+1 : (Q \wedge B) \Rightarrow wp(S_i, R))$

Then (and only then):

3. $Q \Rightarrow wp(\text{IF}, R)$

[1] Else, rename that occurrence of i.