Flow chart for semantic tableaux (for 2-valued propositional logic)

List statements to be tested for inconsistency: (premises with ‘: T’ after them, Conclusion with ‘: F’ afterwards)

Close with ‘x’ any branch that contains ‘Φ: T’ and ‘Φ: F’, for any formula Φ

open branches?

STOP: inconsistent. (Argument is valid)

open branch contain unchecked complex formula?

STOP: consistent (Argument is invalid)

Choose one such formula, check it off, and apply the appropriate rule. Enter the result in all and only those open branches that contain this formula. (All and only the branches that this formula dominates)