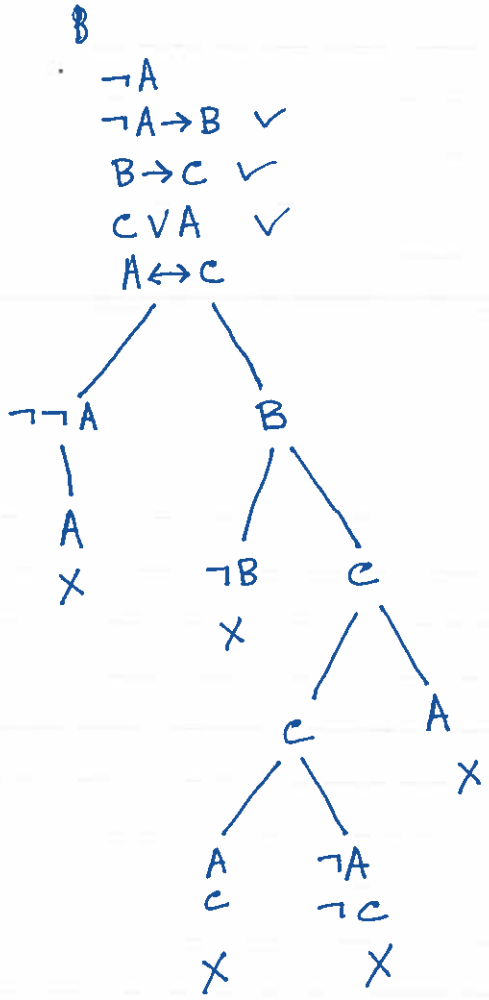
Example 1

$\{\neg A, \neg A \to B, B \to C, C \vee A, A \leftrightarrow C\}$ Is consistent ?

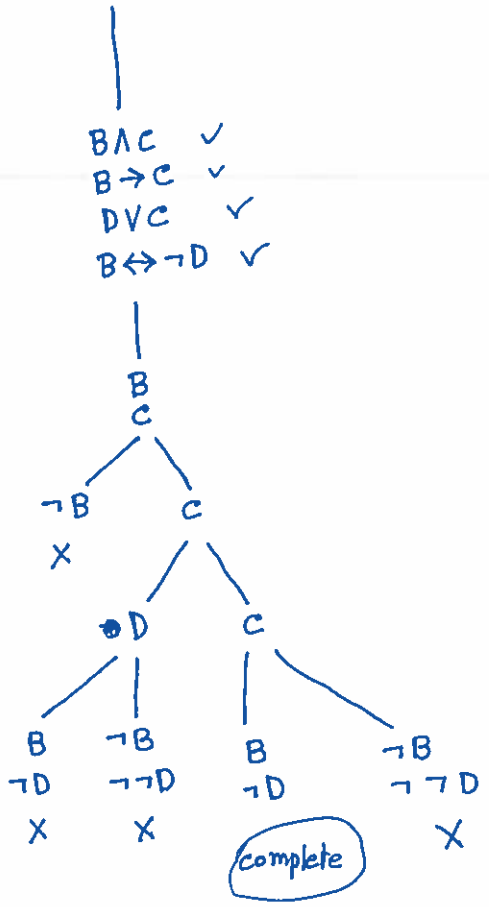


No, because all the paths are inactive .

Example 2

$\{ B \wedge C,\ B \to C,\ D \vee C,\ B \leftrightarrow \neg D \}$ Consistent ?

$(B \wedge C) \wedge (B \to C) \wedge (D \vee C) \wedge (B \leftrightarrow \neg D)$ ✓



Thus the set is consistent and ~~it is consistent for~~ all the propositions are True for the assignment

$B := T \quad C := T \quad D := F$