Cpt S 350 Homework #7

Please print your name!

Let G be color graph in the sense that it is a dorected graph where each node has a color. In particular, there is a designated initial node. An ω-path is an infinite walk on G that starts from the initial.

1. Design an algorithm that decides where there is an ω-path on which $\Box(\texttt{yellow} \vee \Diamond \texttt{blue})$ holds.

2. Design an algorithm that decides where there is an ω-path on which $\Box\Diamond(\texttt{yellow} \wedge \Diamond \texttt{blue})$ holds.