The following result is true:

\[ G \text{ is acyclic } \iff \exists C_1 \ldots C_k \]

of the nodes of \( G \) such that all arcs in \( G \) go from \( C_p \) to \( C_q \),

where \( p < q \).

In class we proved \( \Rightarrow \).

In this exercise, prove \( \Leftarrow \).