## Directed Hamiltonian Cycle



- DIR-HAM-CYCLE: given a digraph G = (V, E), does there exists a simple directed cycle  $\Gamma$  that contains every node in V?
- Claim. DIR-HAM-CYCLE ≤ p HAM-CYCLE.
- Pf. Given a directed graph G = (V, E), construct an undirected graph
  G' with 3n nodes.



