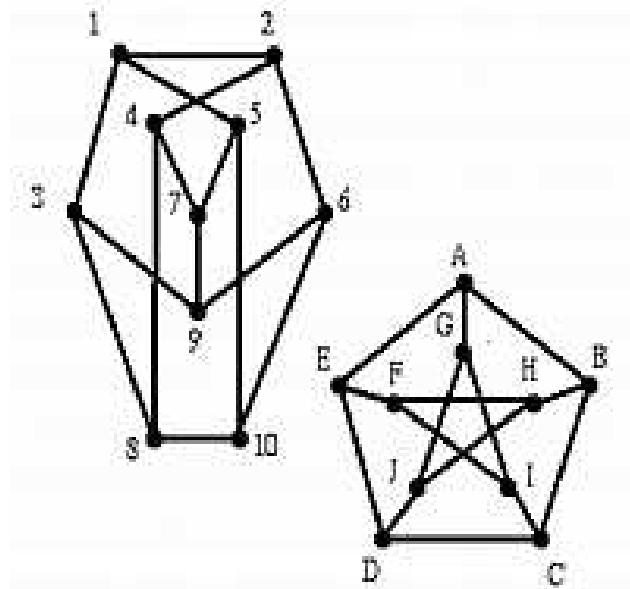


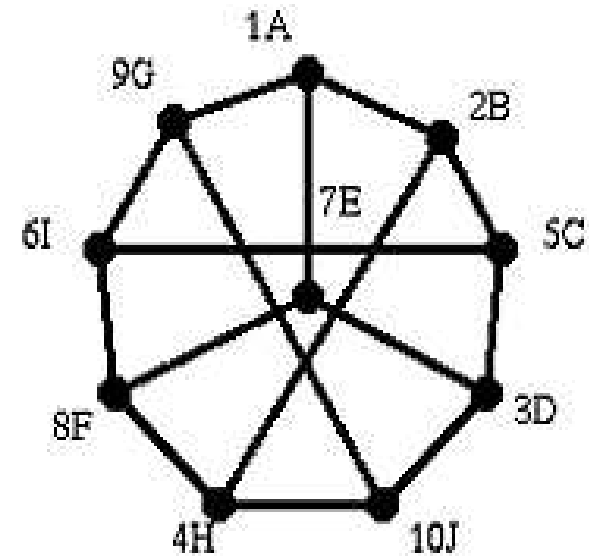
# Harte Probleme (Graphen)

# Graphenisomorphismus

Input

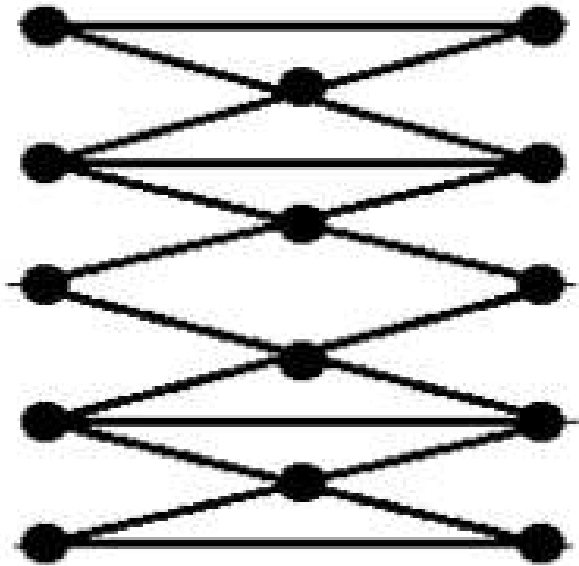


Output

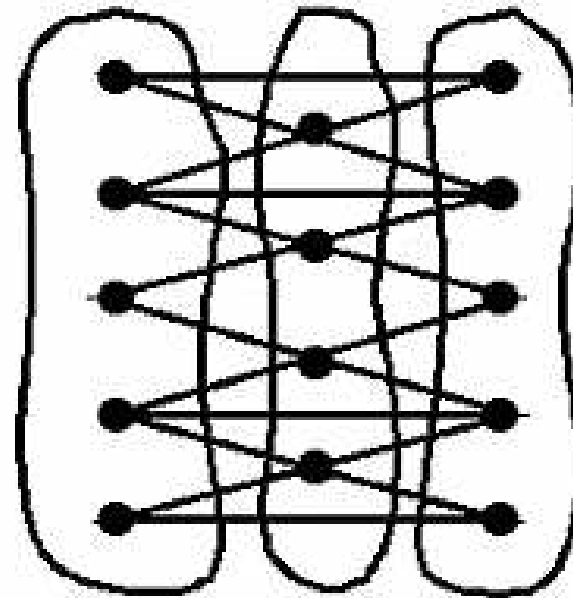


# Minimale Knotenfärbung

Input

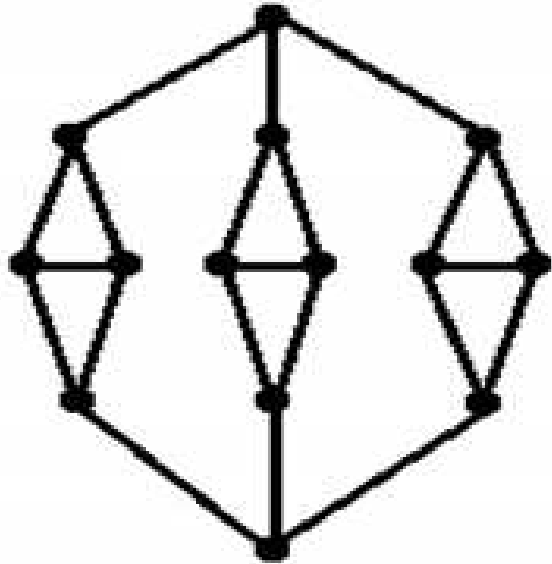


Output

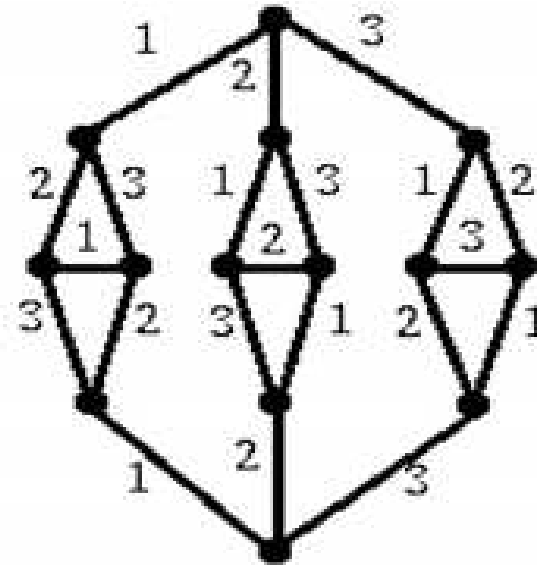


# Minimale Kantenfärbung

Input

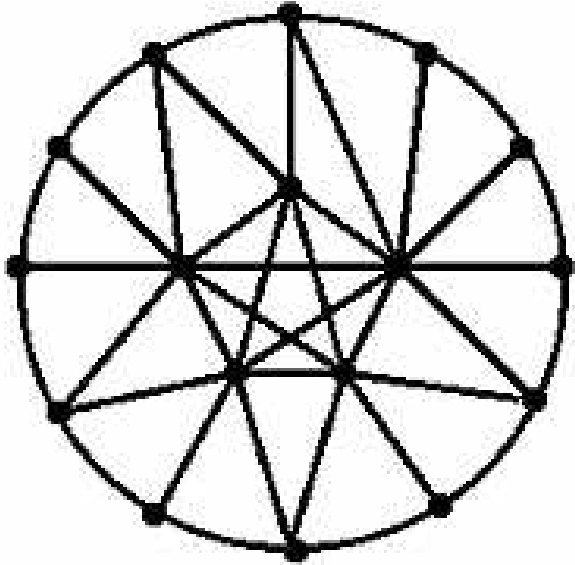


Output

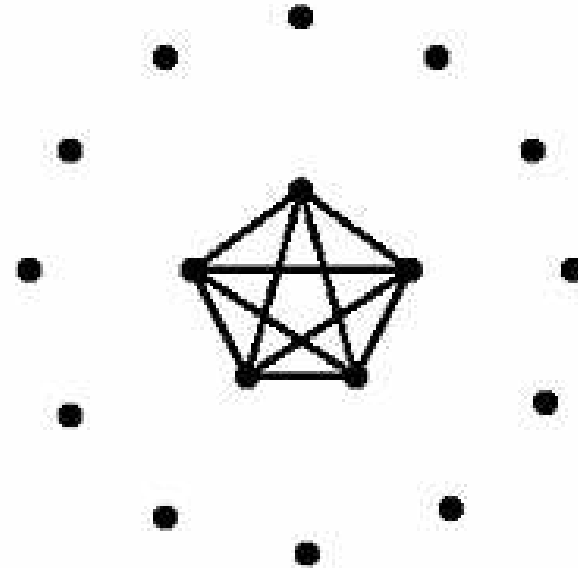


# Maximale Clique

Input

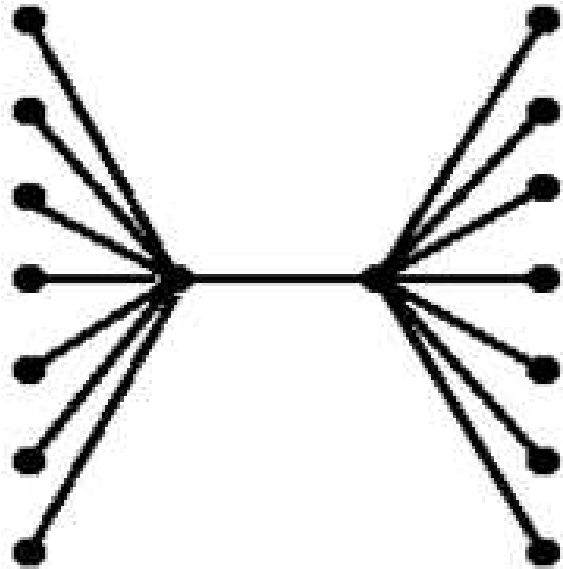


Output

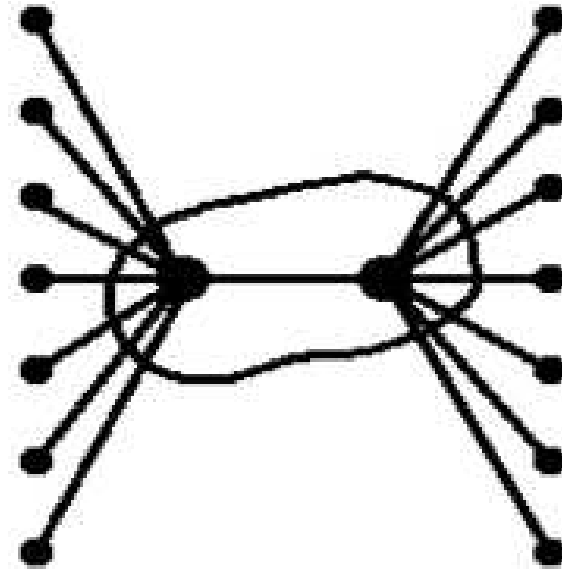


# Minimale Knotenüberdeckung

Input

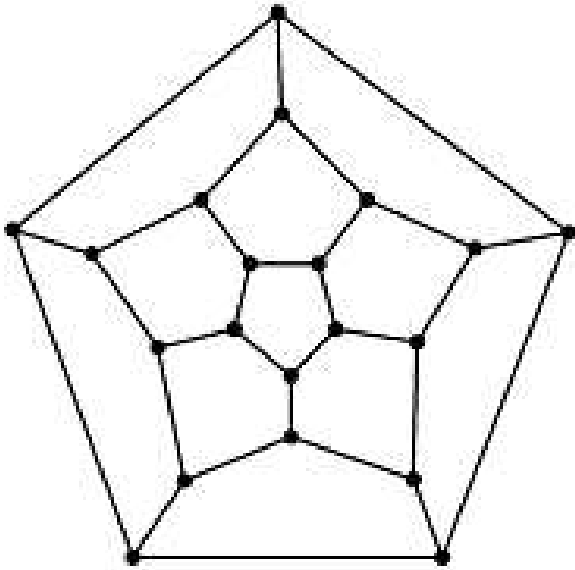


Output

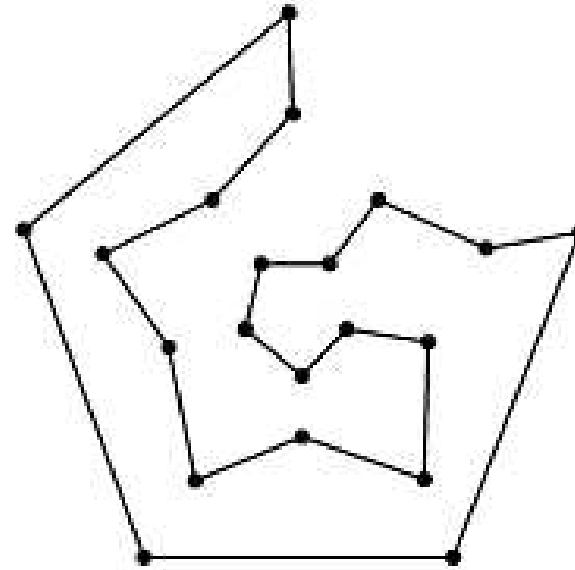


# Hamilton-Zykel

Input

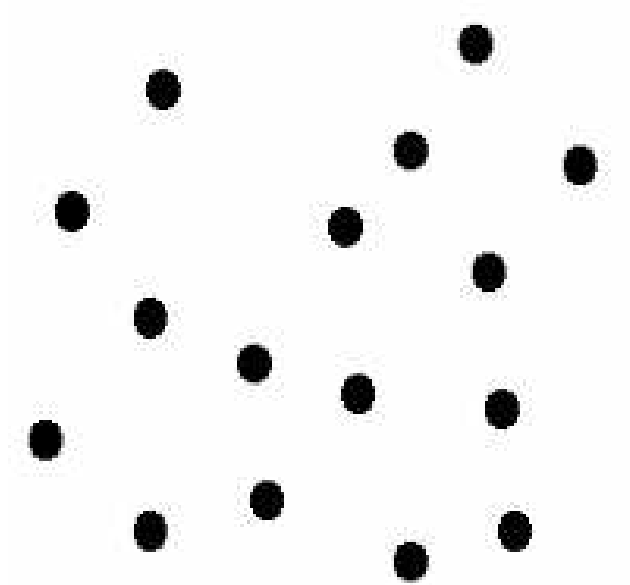


Output

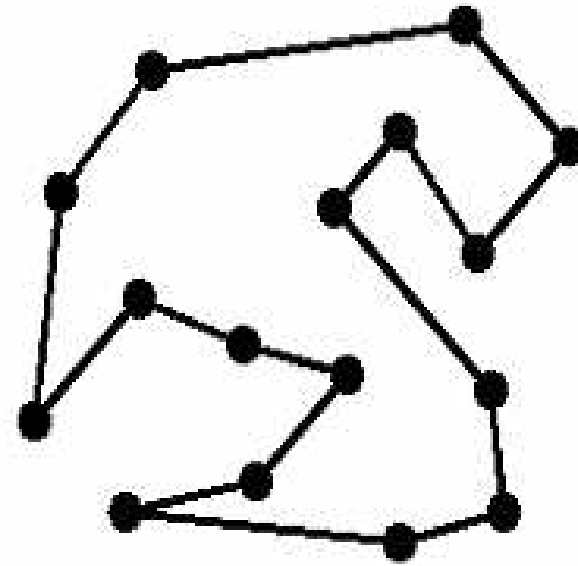


# Traveling Salesman

Input



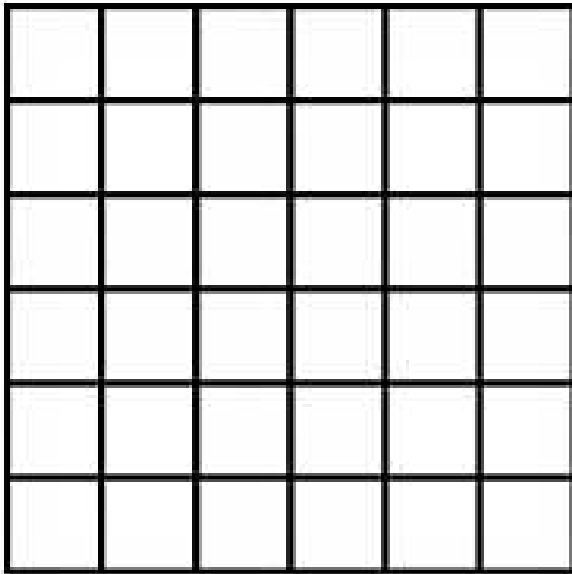
Output





# Maximale unabhängige Knotenmenge

Input



Output

