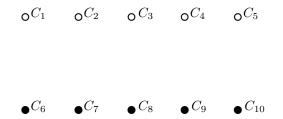# Discrete Optimization

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1 Graphs

Ten computers labeled $C_1, C_2, \ldots, C_{10}$ in a lab have to be connected by a hard wire to form a network. Every computer can be connected to three other computers.

○C_1 ○C_2 ○C_3 ○C_4 ○C_5

●C_6 ●C_7 ●C_8 ●C_9 ●C_{10}

Design a connection and be prepared to justify your design.