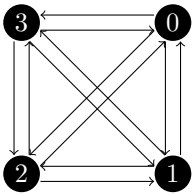
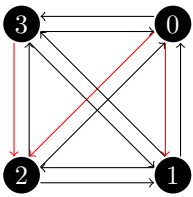


This is a directed version of $\mathcal{K}_4$.

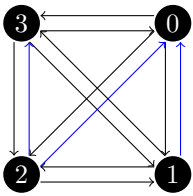


Suppose the directed minimum spanning tree sampled from the graph, $\vec{T}^*$, is shown in red.

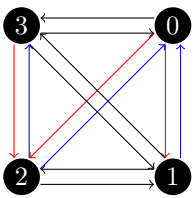
Next set the node demands equal to $\deg^+ \vec{T}^* - \deg^+ \vec{T}^*$ for each node and find the minium cost flow.

In this case the demands are

- $0 \to 2$
- $1 \to -1$
- $2 \to -2$
- $3 \to 1$



This is the min flow returned from `min_cost_flow`.



Add the support of $\vec{T}^*$ and the min flow