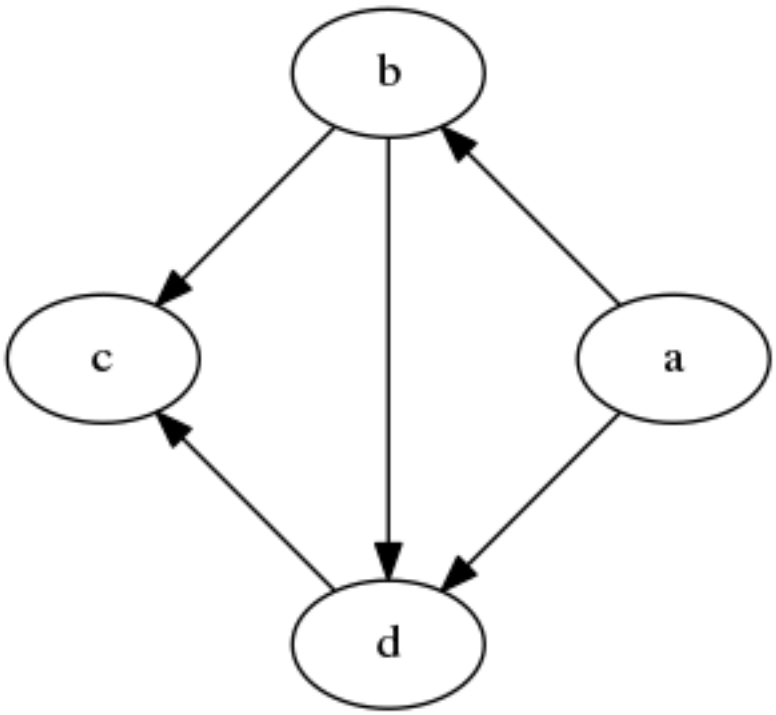
Topological Sort

July 8, 2020

In [10]:
```
import networkx as nx
import pygraphviz as pgv
from nxpd import draw, nxpdParams
nxpdParams['show'] = 'ipynb'


G = nx.DiGraph()
G.add_edges_from([('a', 'b'), ('b', 'c'), ('b', 'd'), ('d', 'c'), ('a', 'd')])
draw(G, layout='circo')
```

Out[10]:



In [11]:
```
if nx.is_directed_acyclic_graph(G):
    print("Topological ordering of the nodes:", nx.topological_sort(G))
```

```
        else:
            print("G contains a cycle, hence it cannot be topologically sorted.")
```

```
Topological ordering of the nodes: ['a', 'b', 'd', 'c']
```

```
In [12]: draw(G, layout='dot')
```

Out[12]: