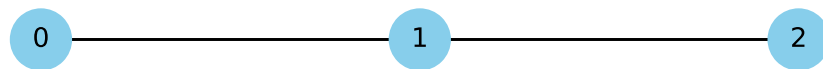


Models with faithfulness violations

True DAG



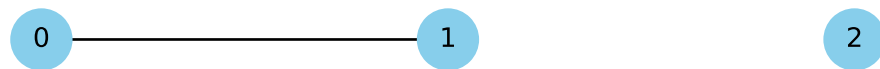
Estimated Skeleton



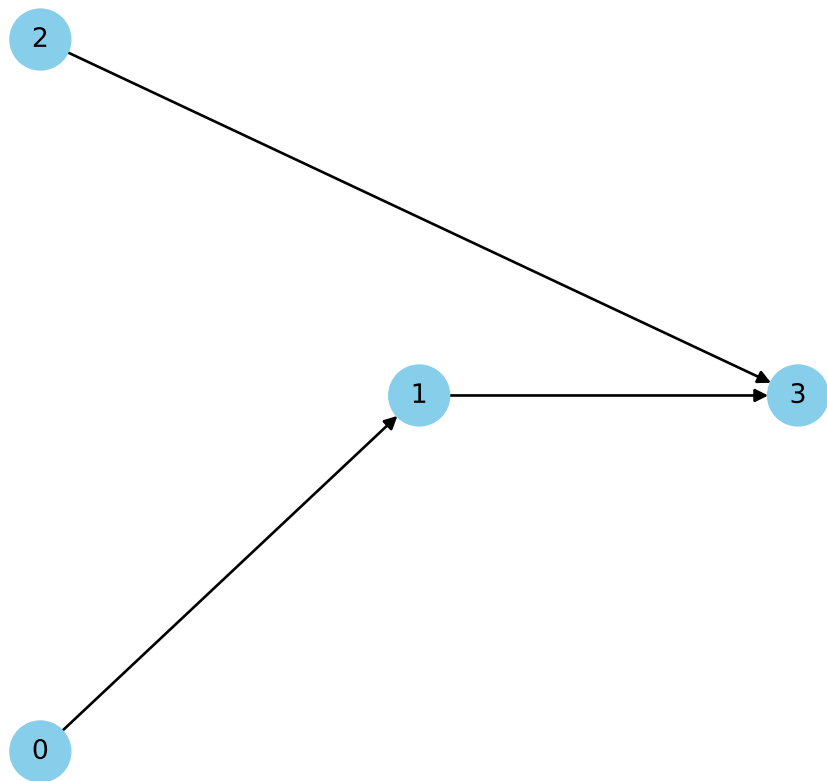
True DAG



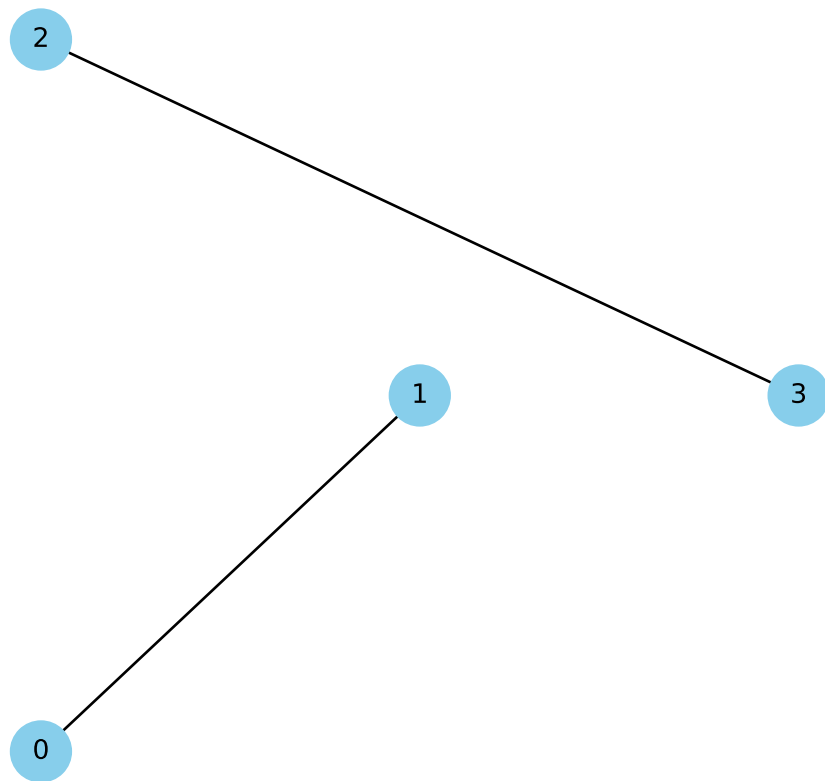
Estimated Skeleton



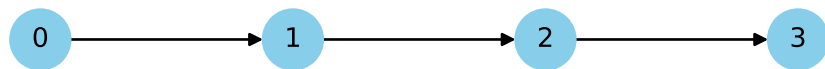
True DAG



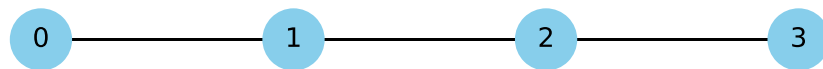
Estimated Skeleton



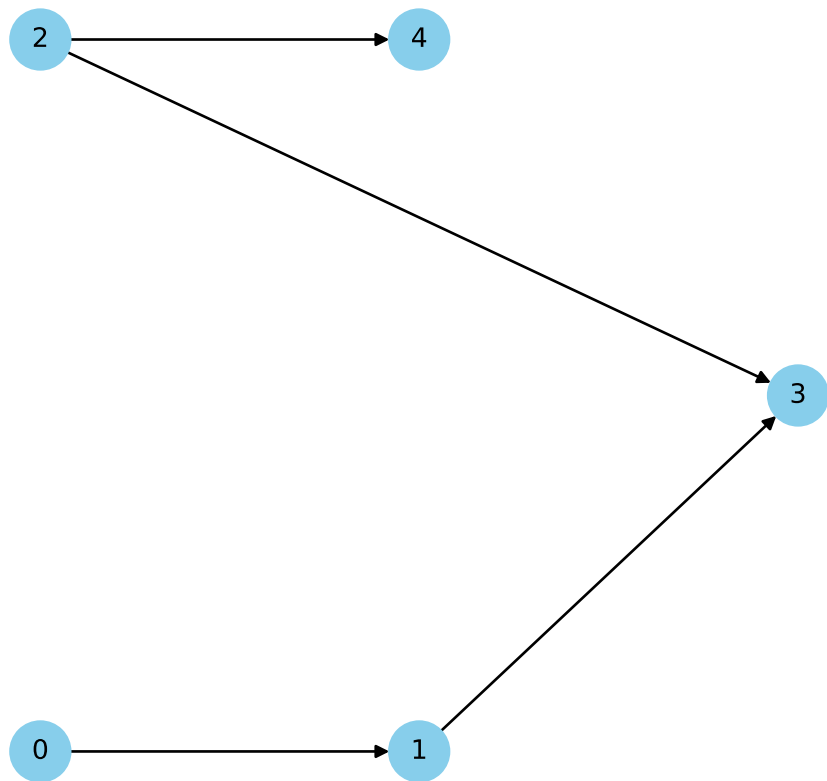
True DAG



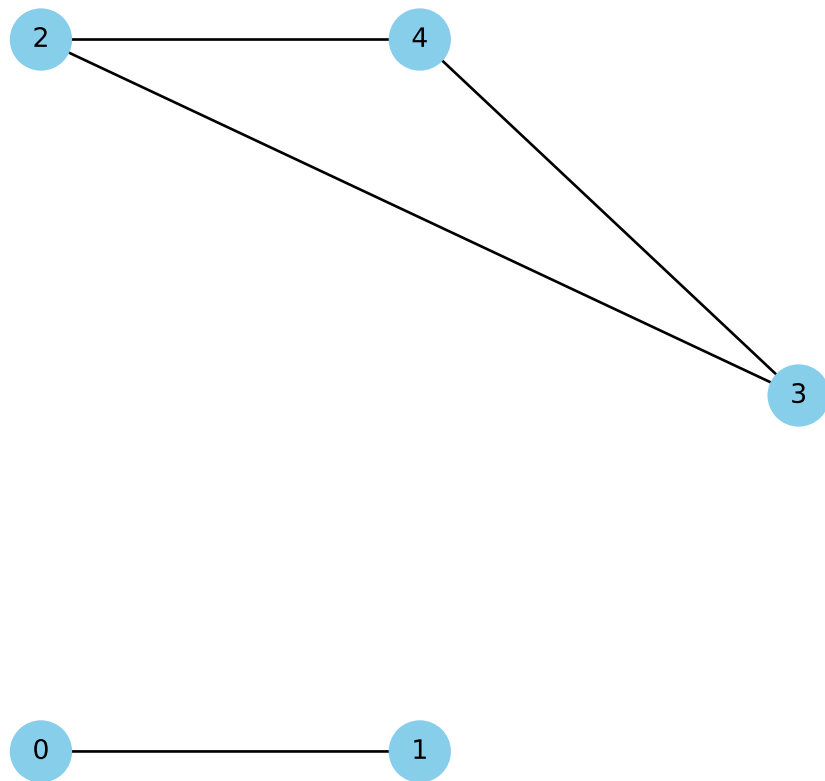
Estimated Skeleton



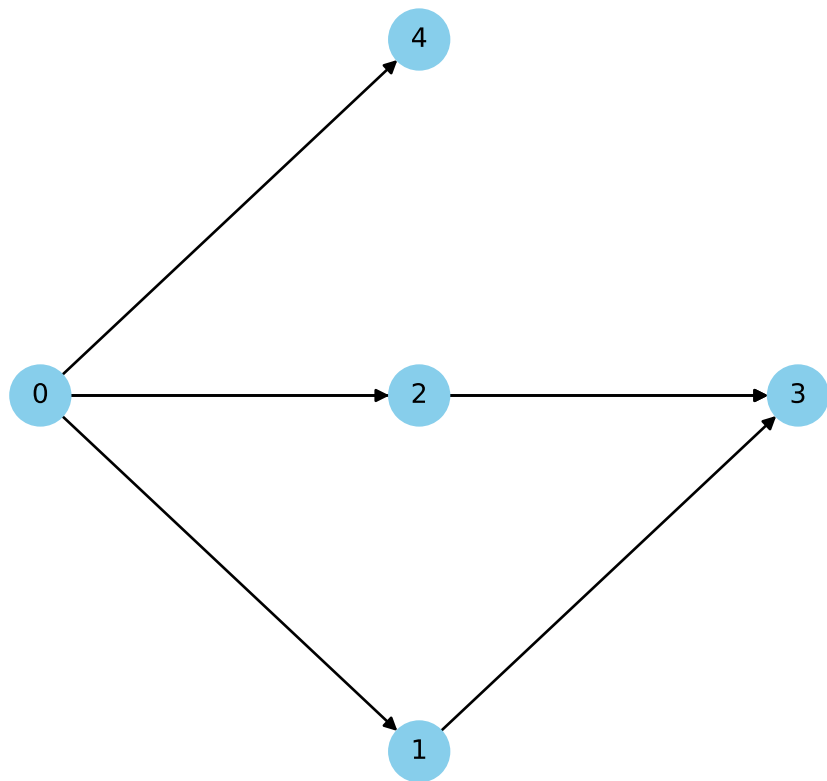
True DAG



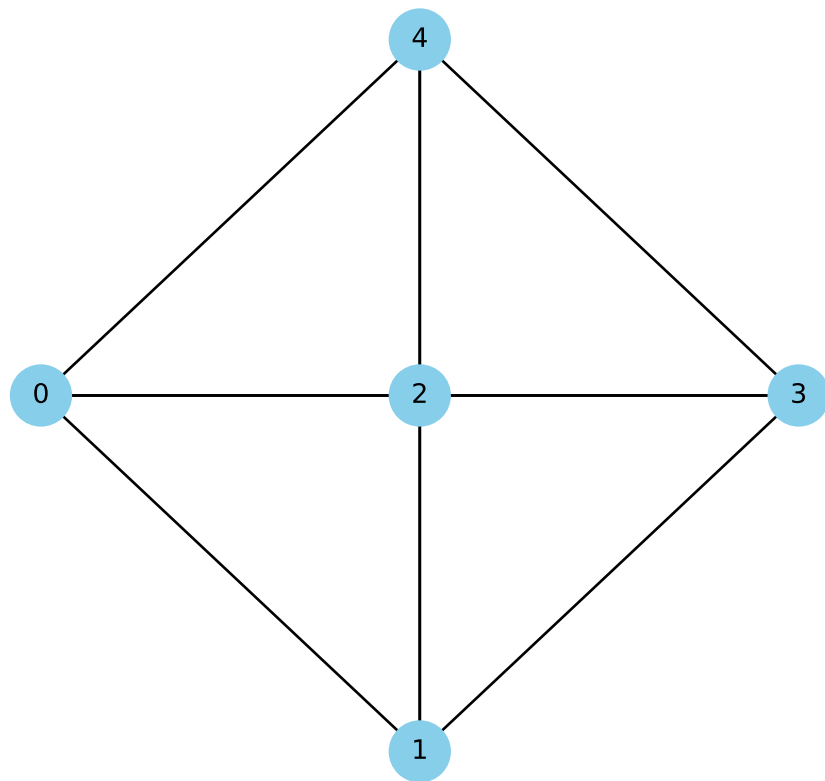
Estimated Skeleton



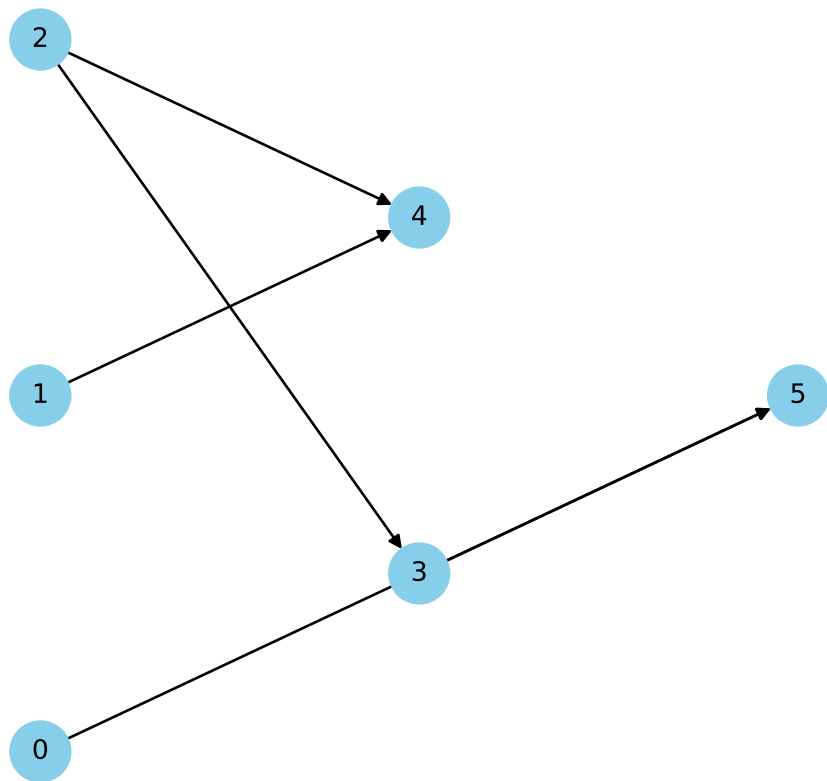
True DAG



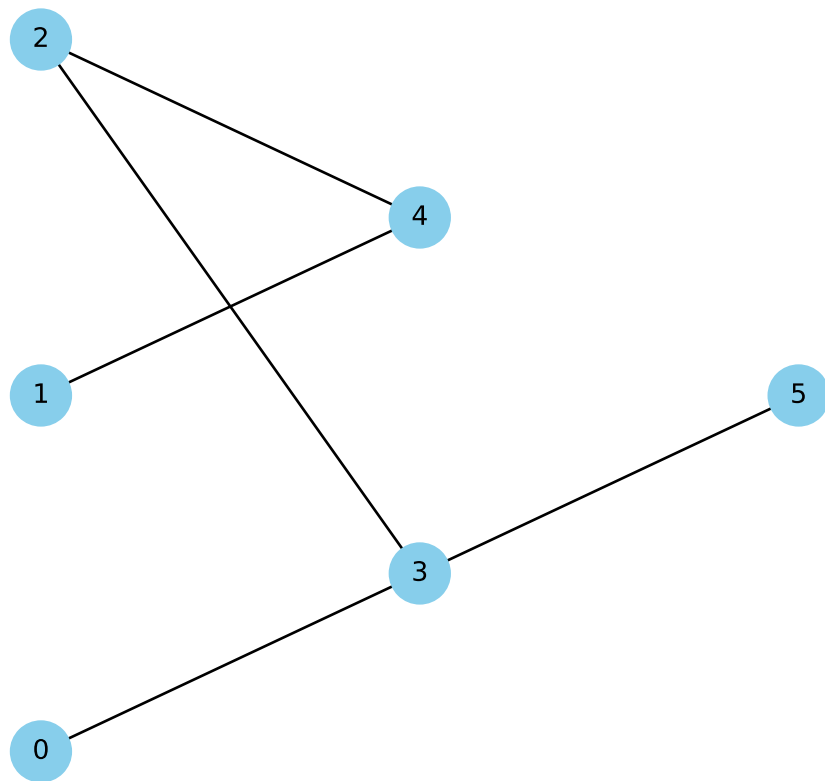
Estimated Skeleton



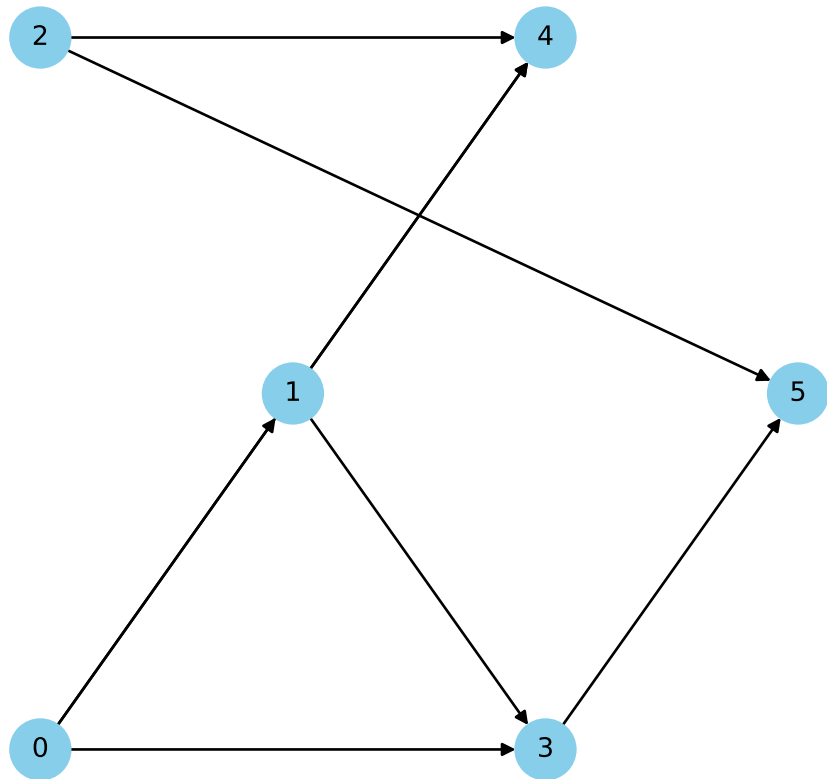
True DAG



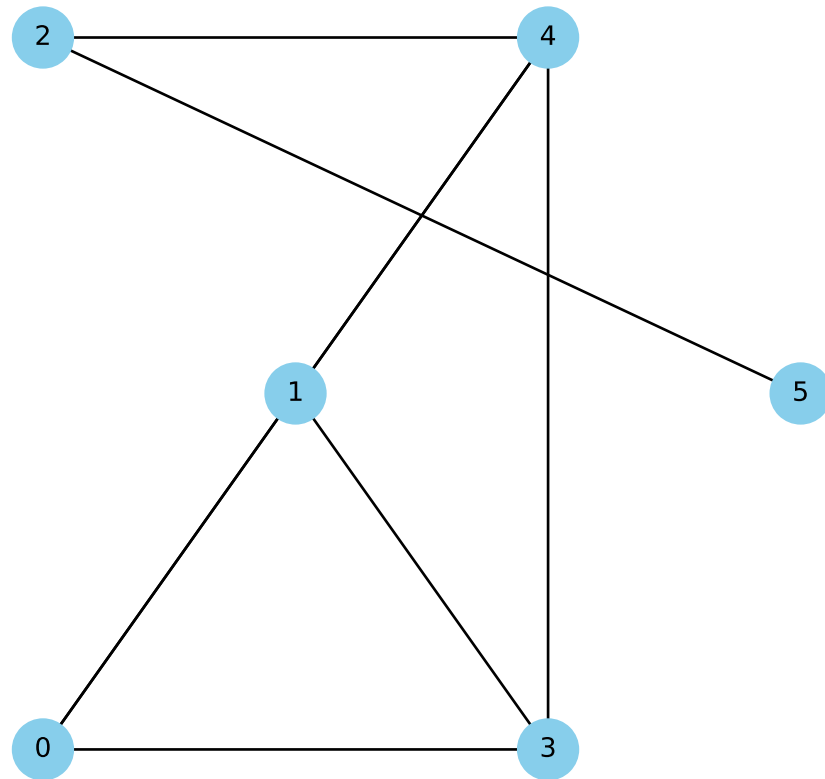
Estimated Skeleton



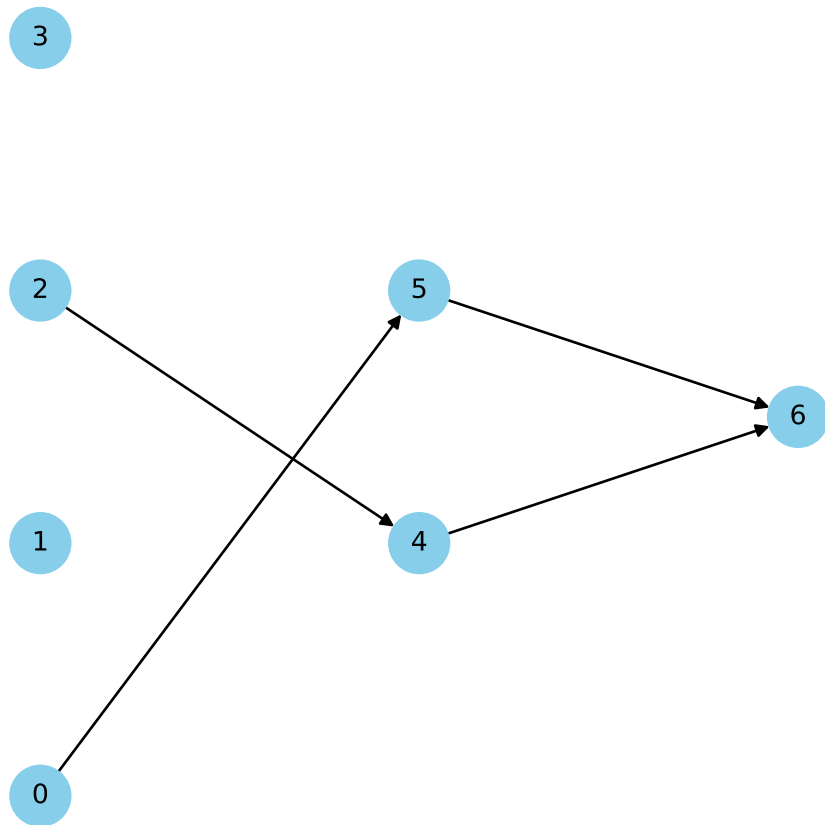
True DAG



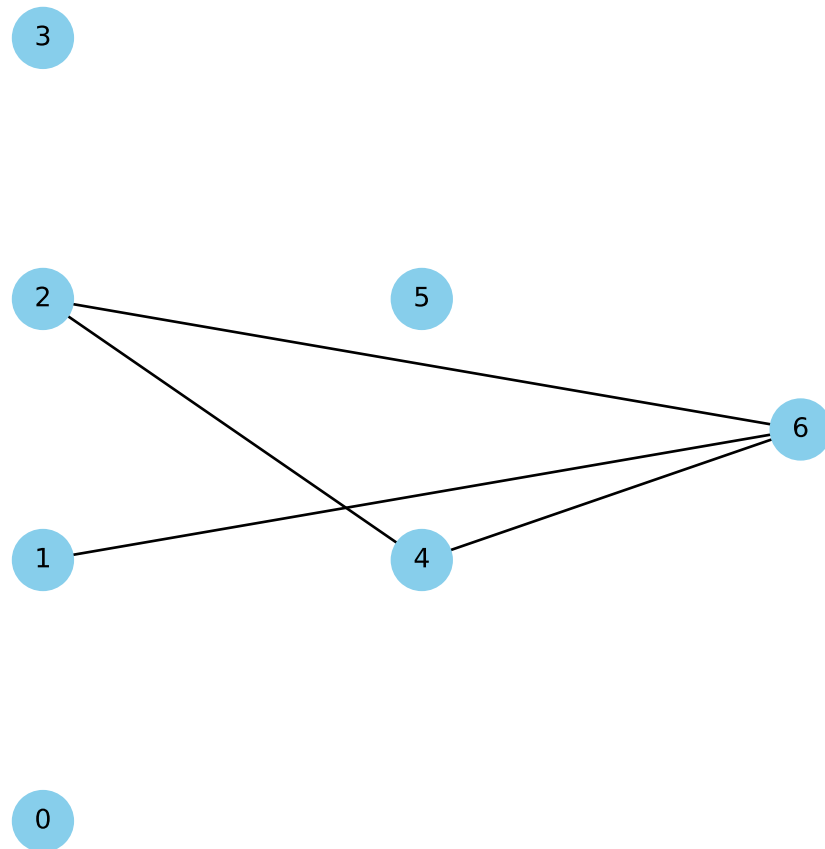
Estimated Skeleton



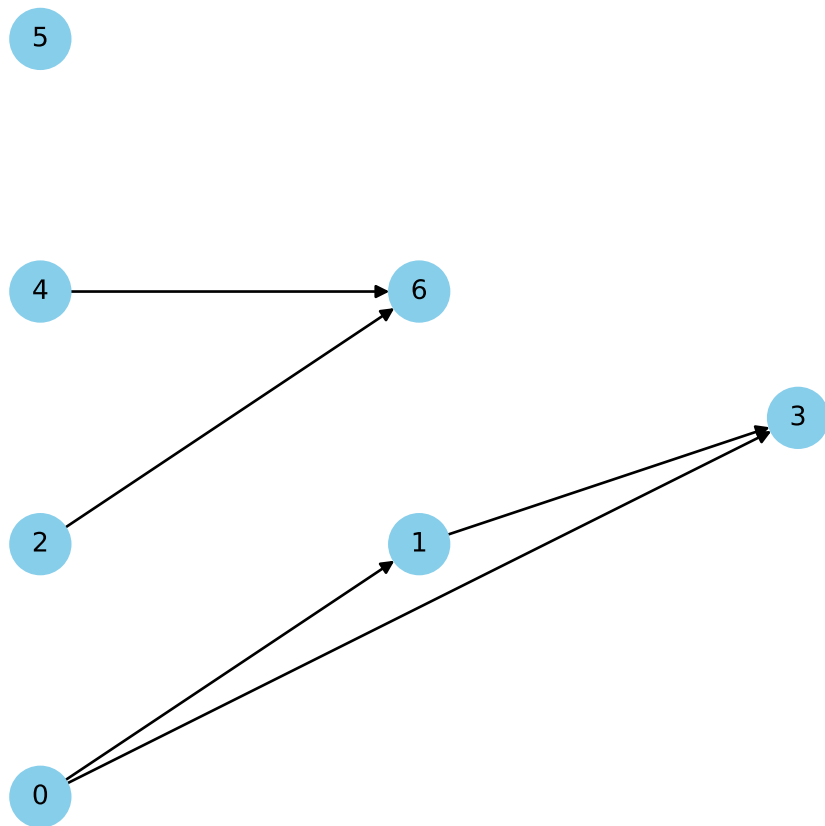
True DAG



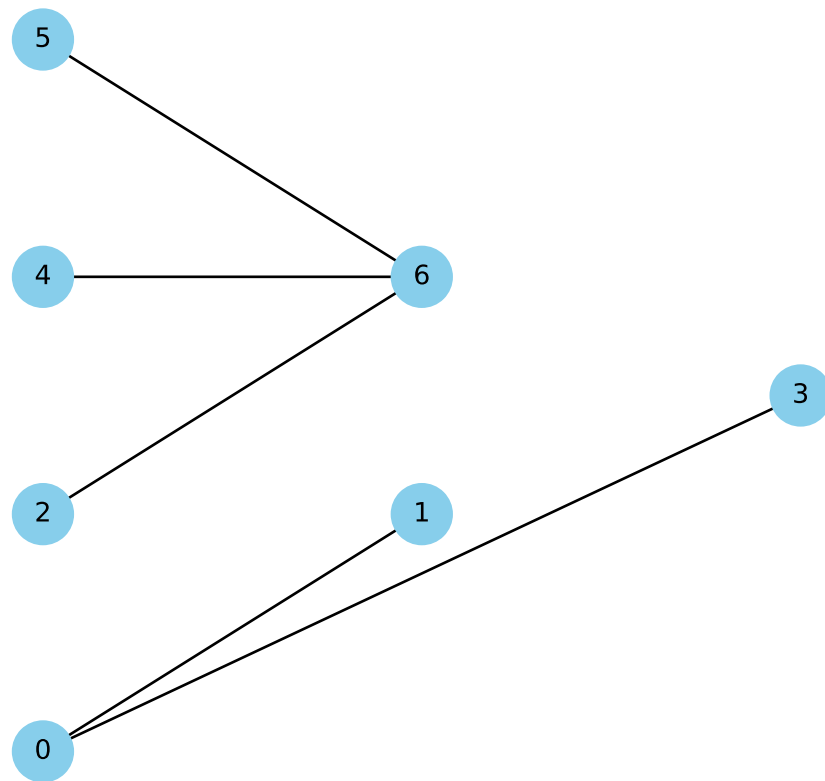
Estimated Skeleton



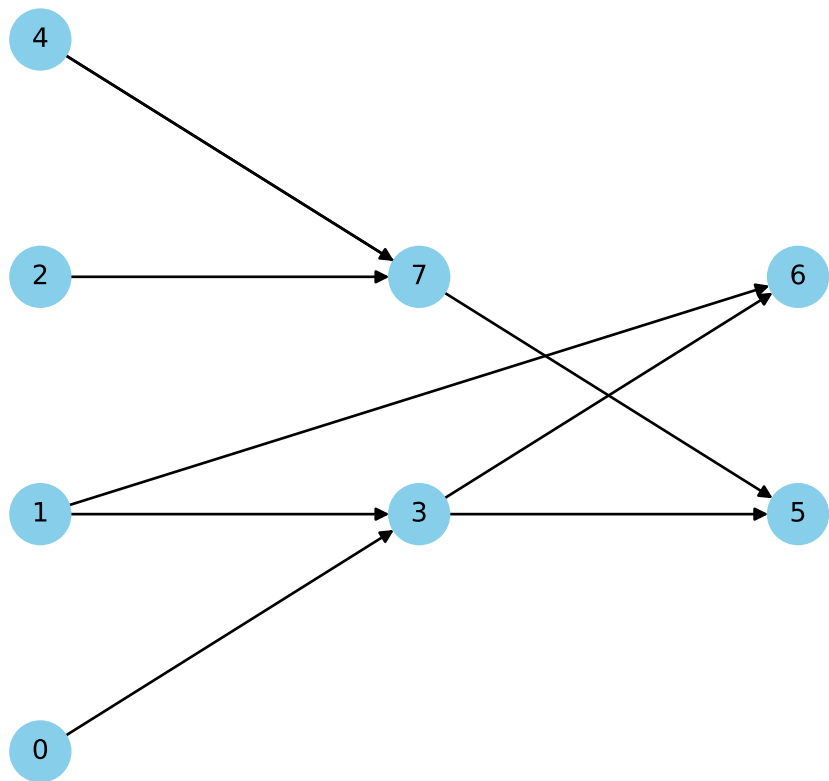
True DAG



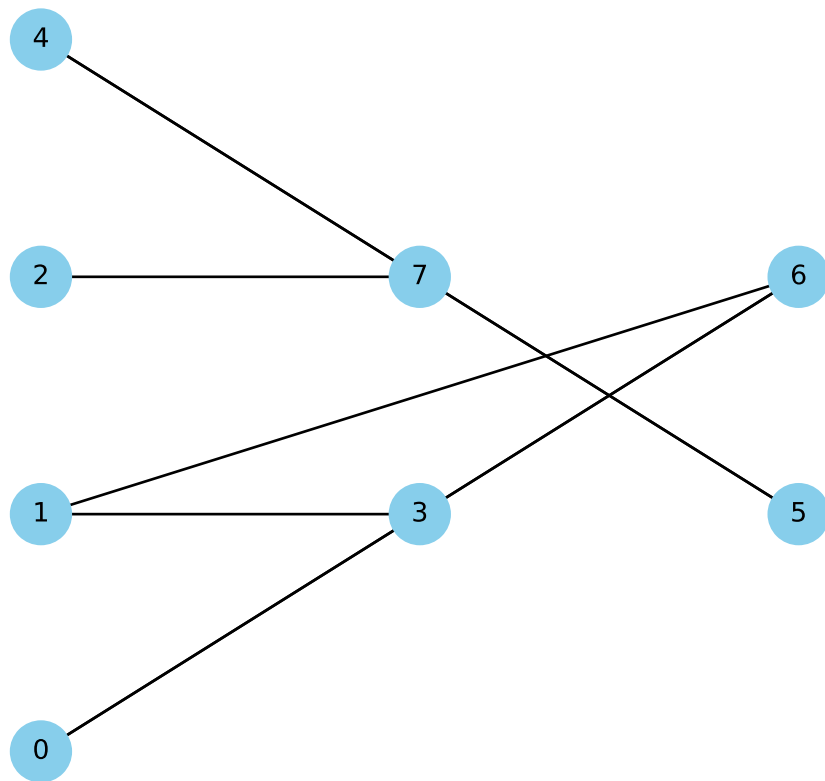
Estimated Skeleton



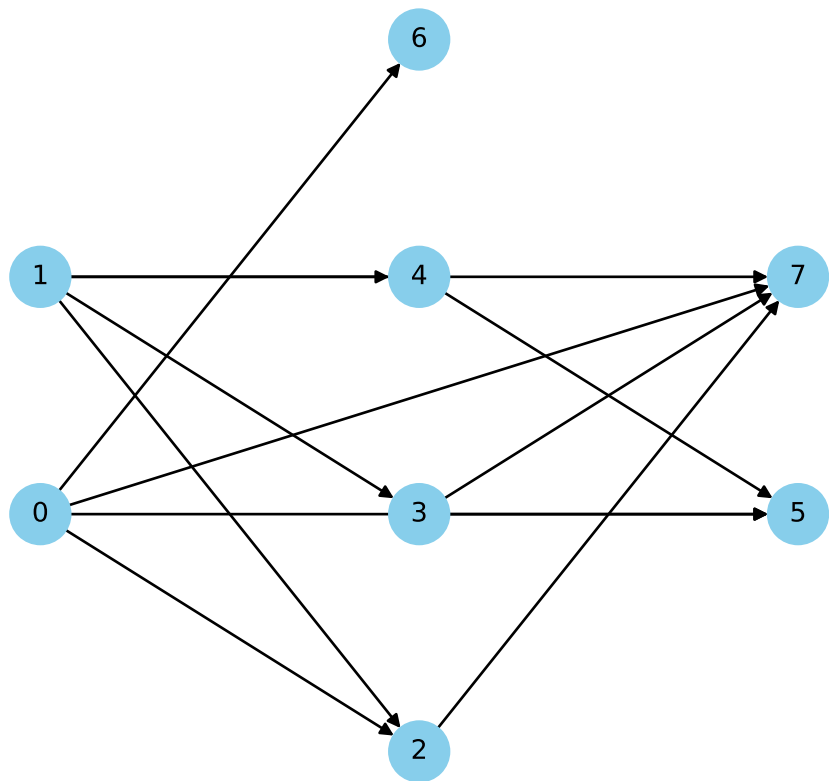
True DAG



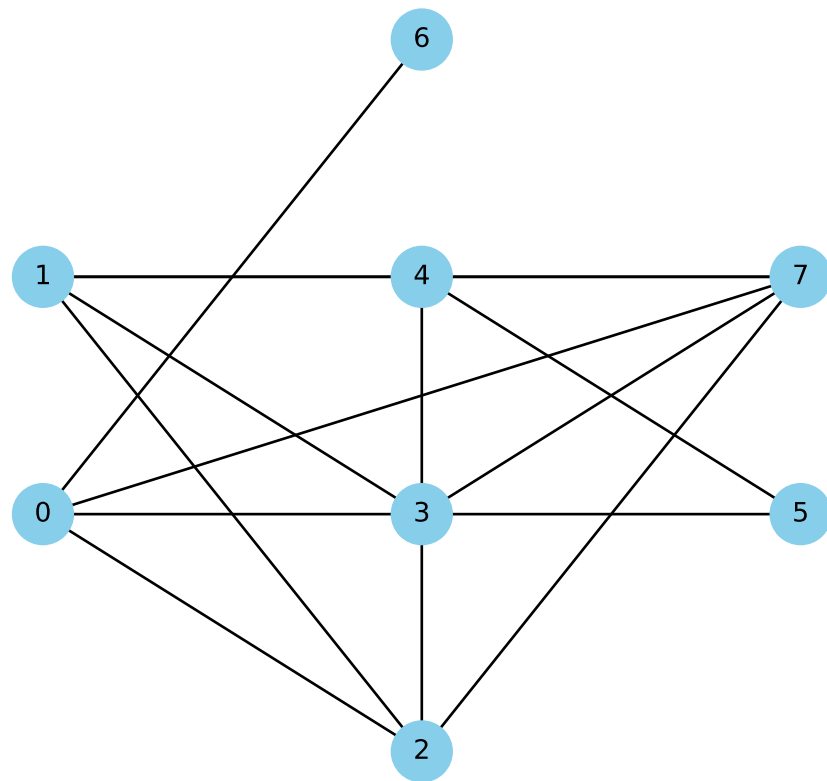
Estimated Skeleton



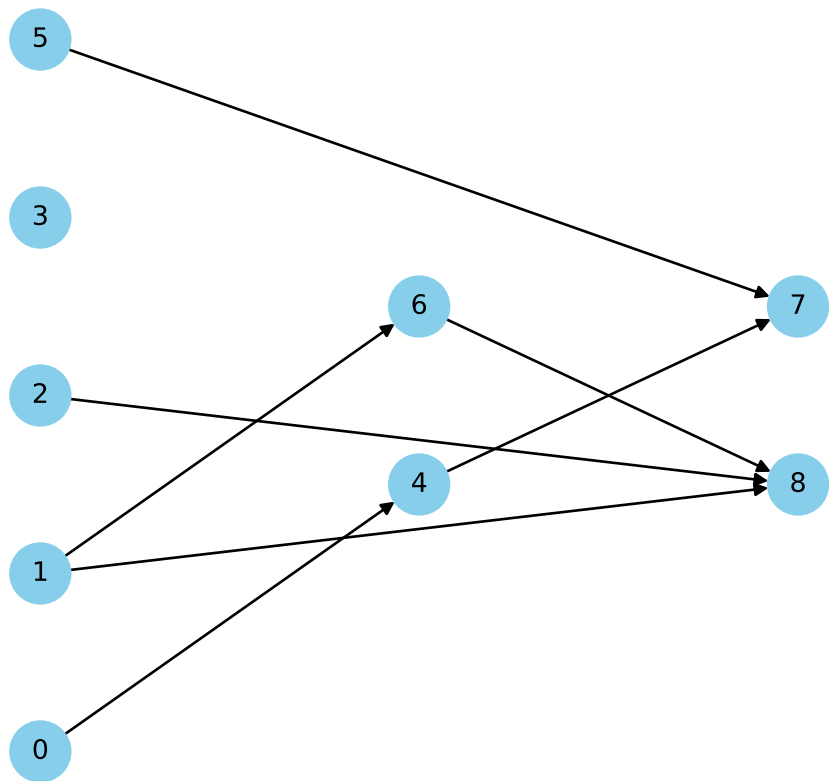
True DAG



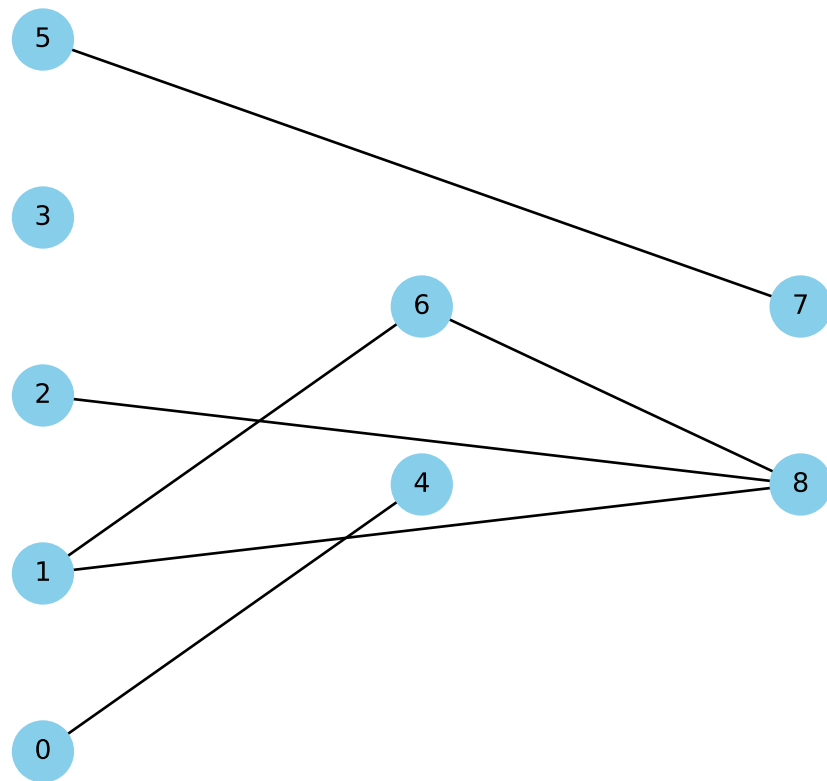
Estimated Skeleton



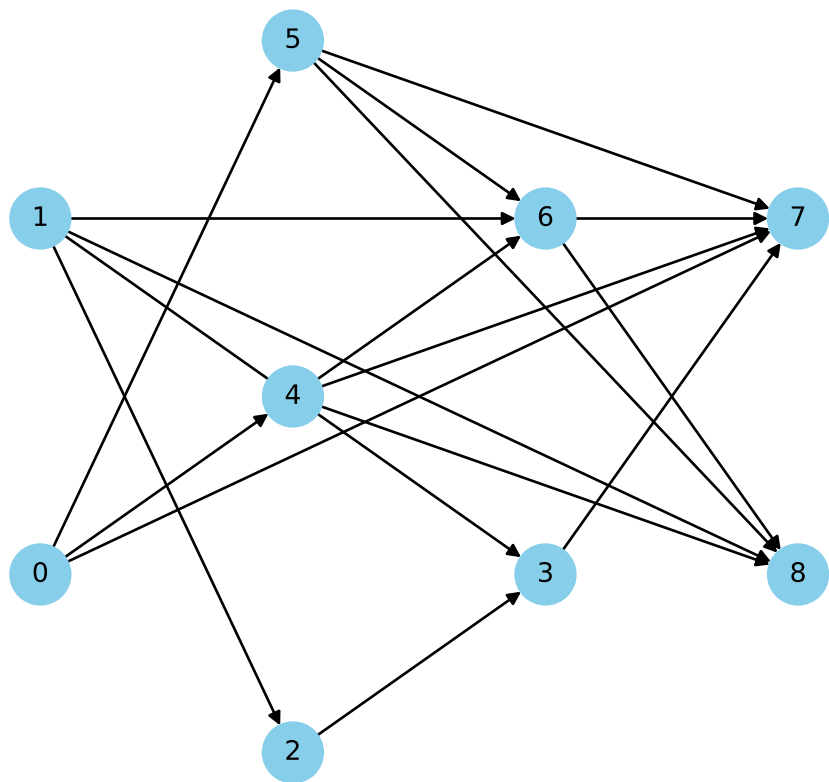
True DAG



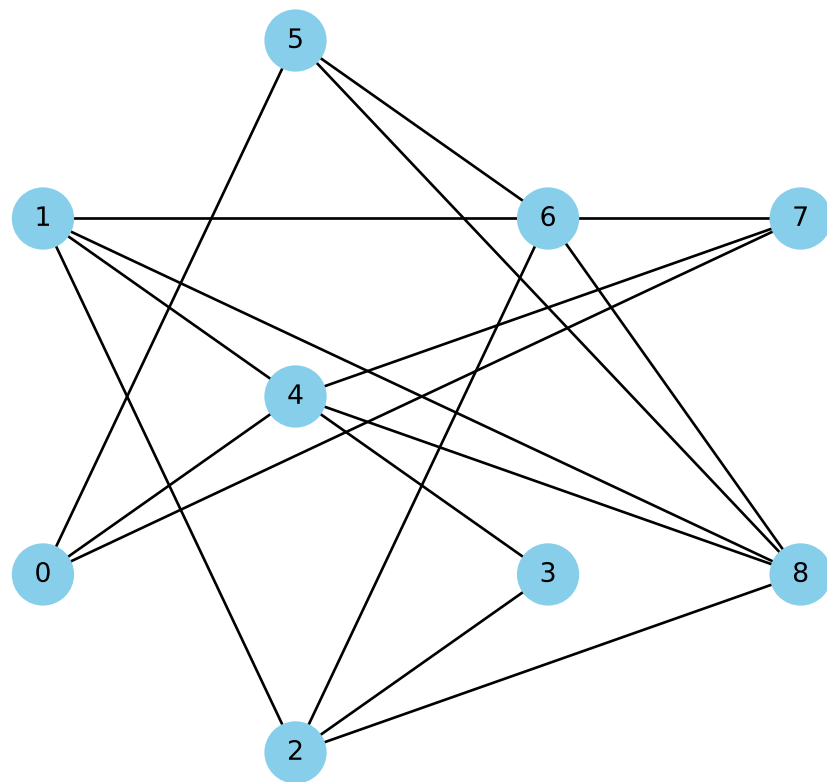
Estimated Skeleton



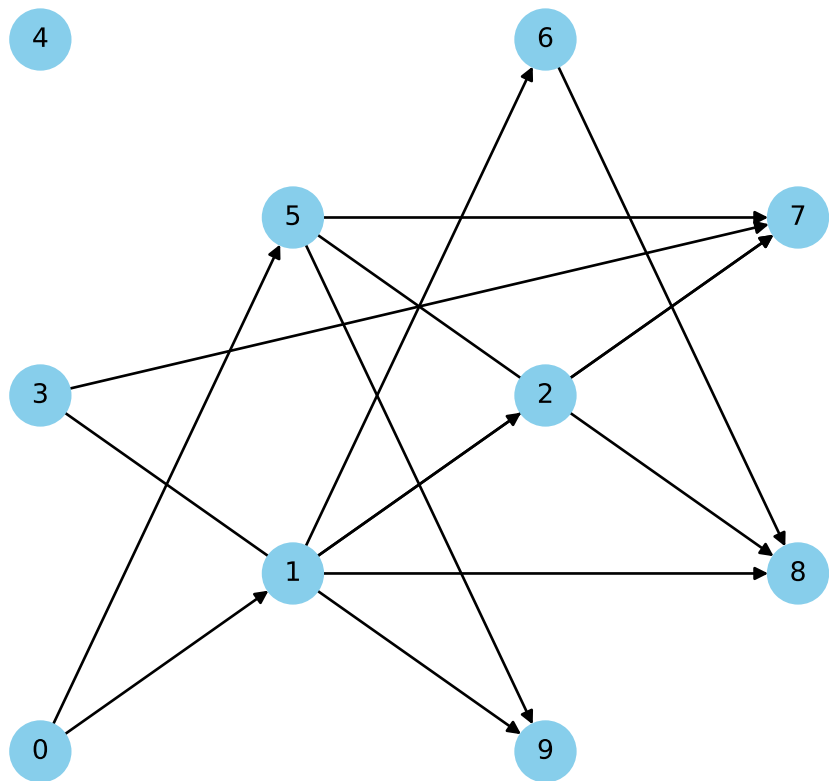
True DAG



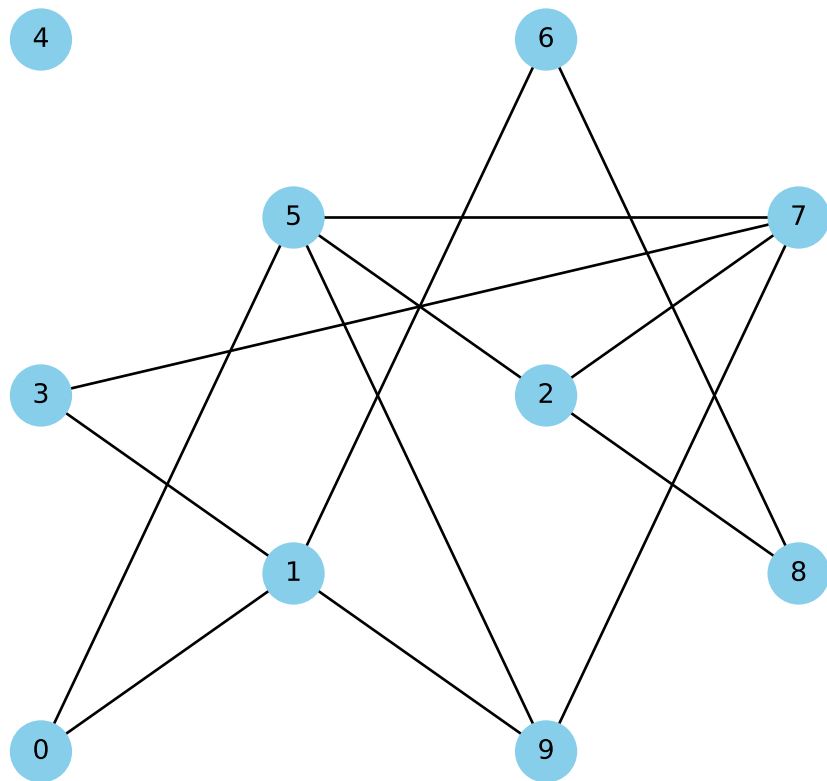
Estimated Skeleton



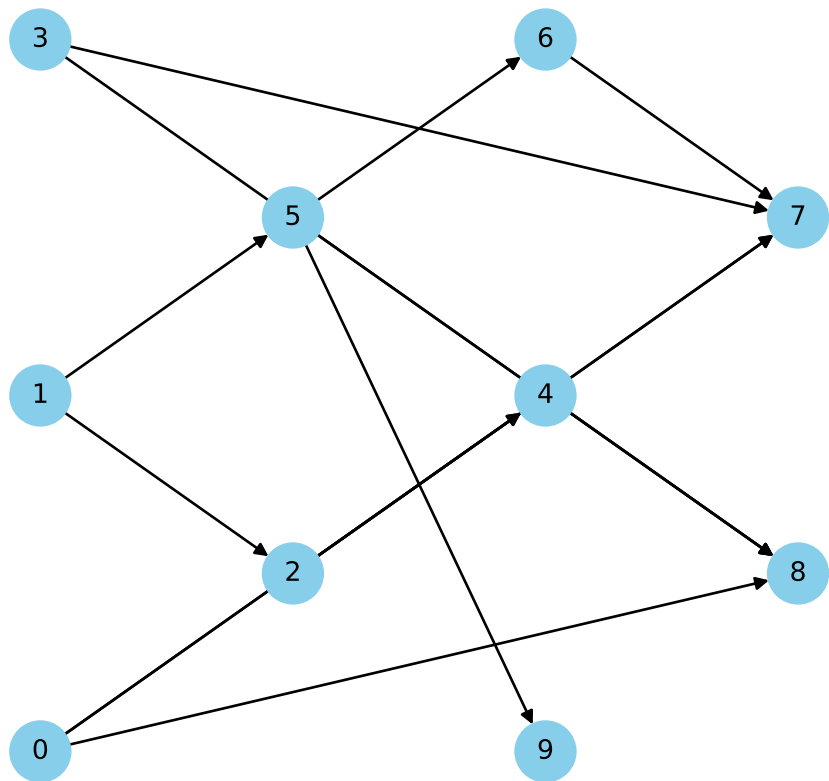
True DAG



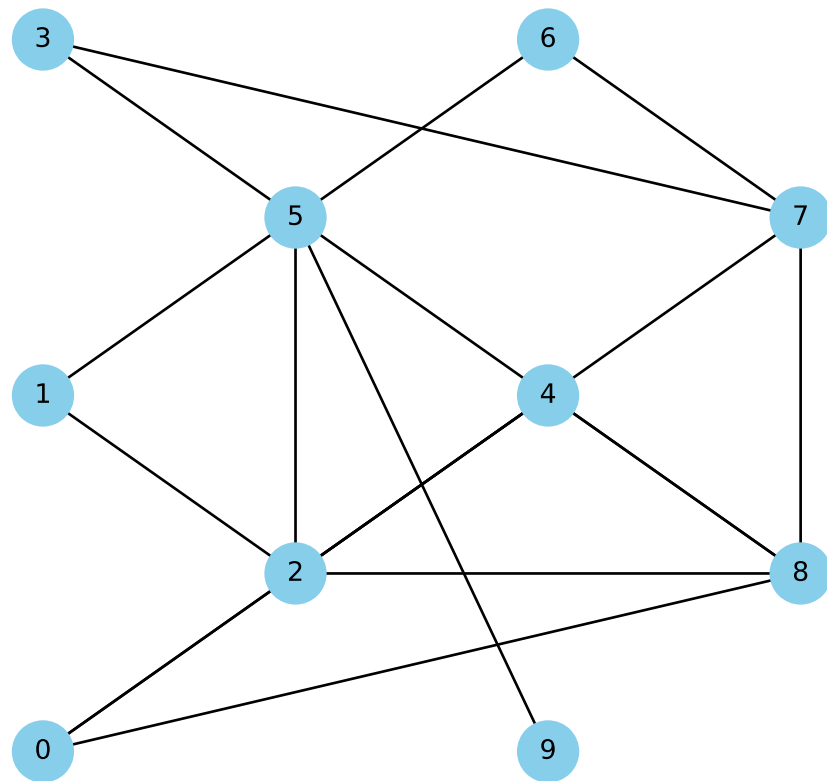
Estimated Skeleton



True DAG

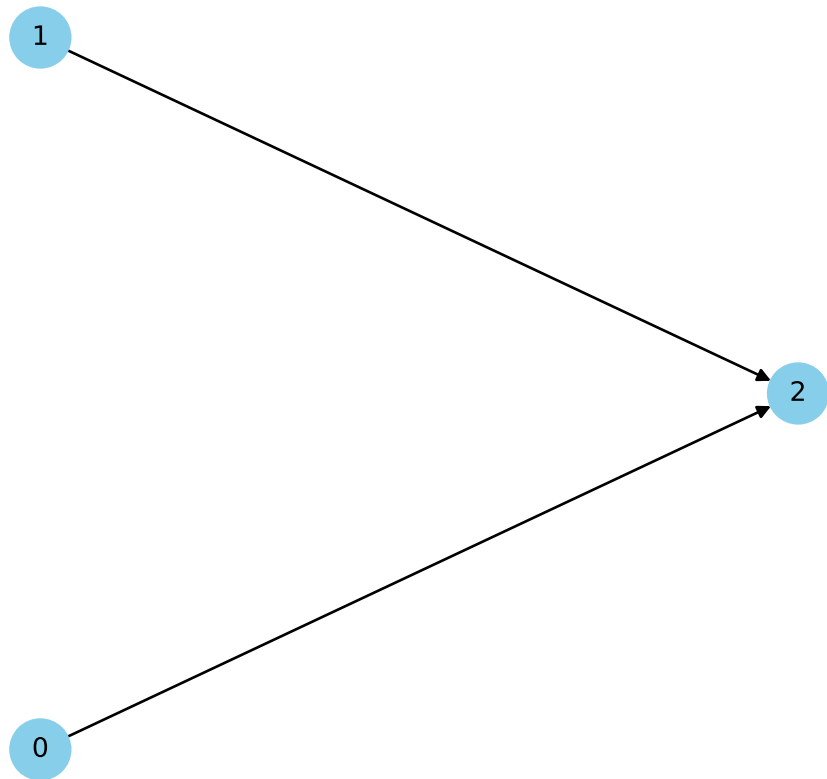


Estimated Skeleton

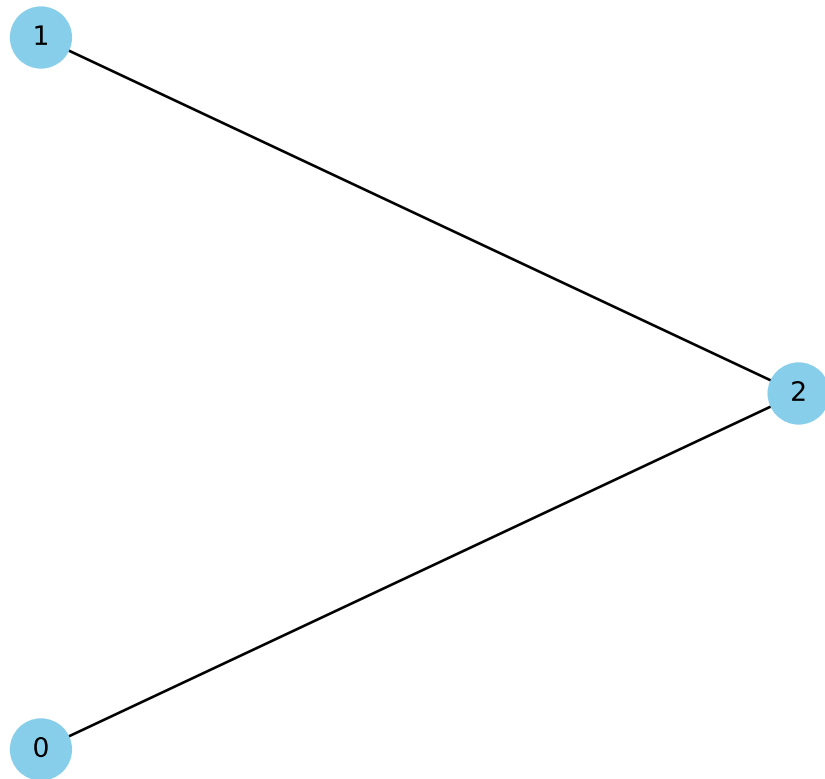


Models without faithfulness violations

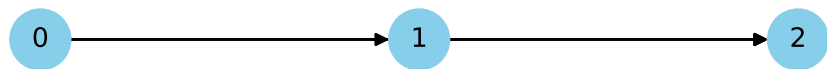
True DAG



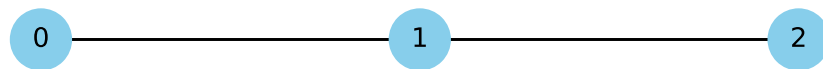
Estimated Skeleton



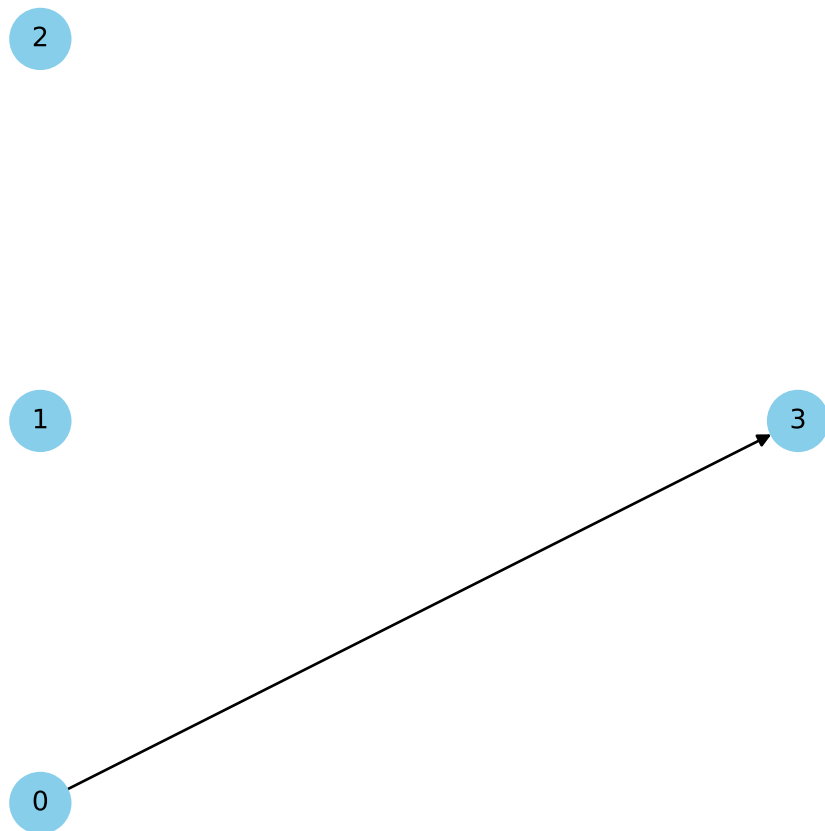
True DAG



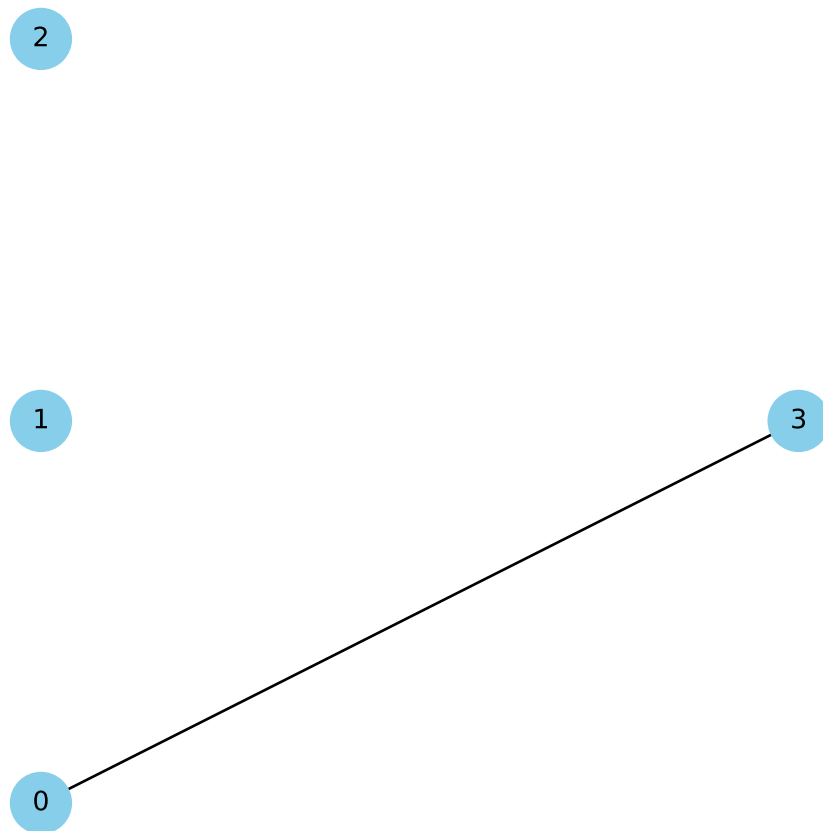
Estimated Skeleton



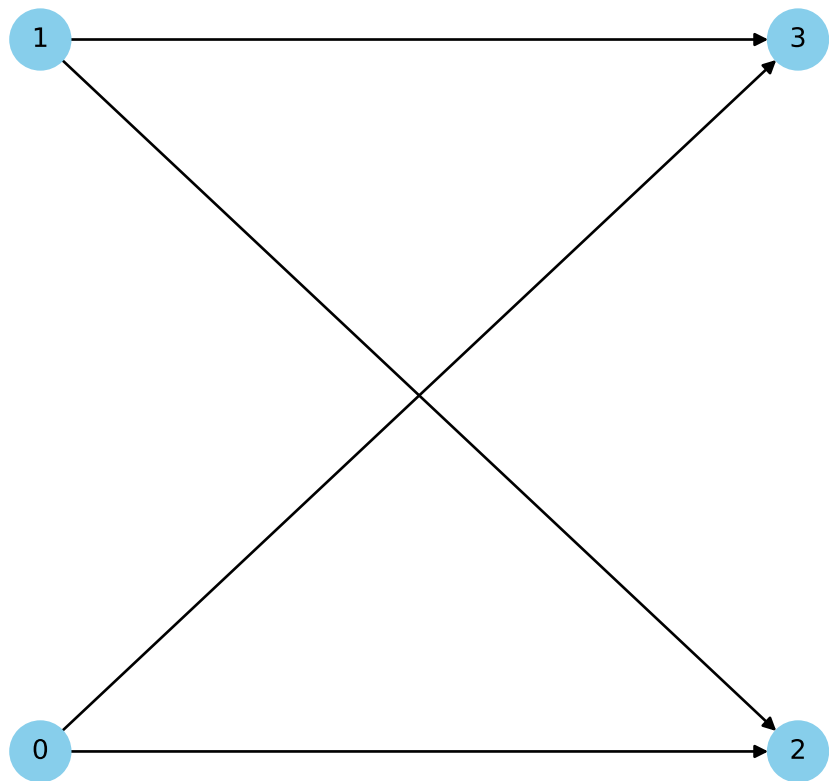
True DAG



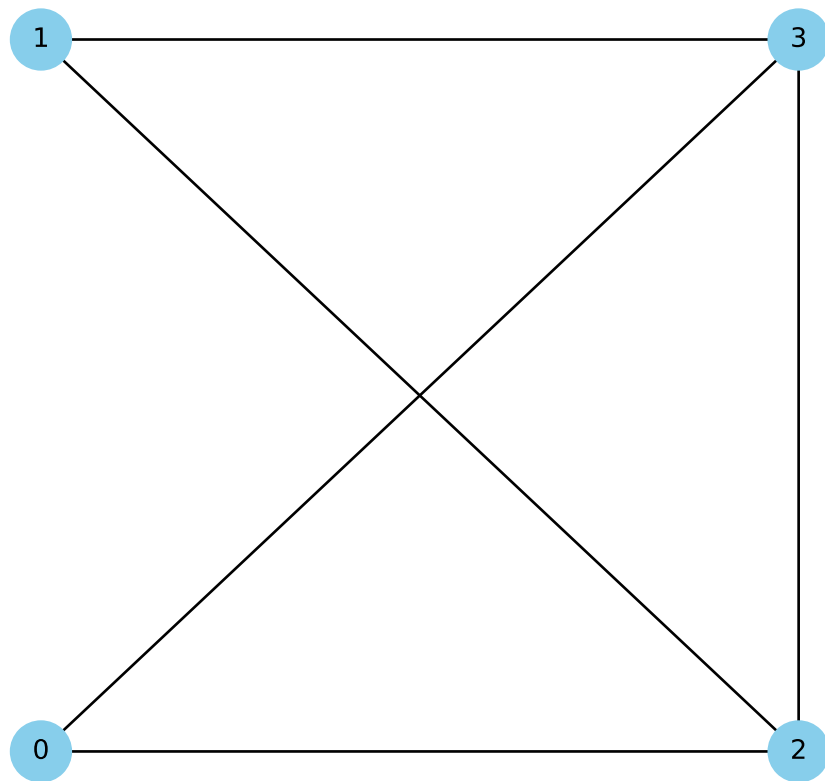
Estimated Skeleton



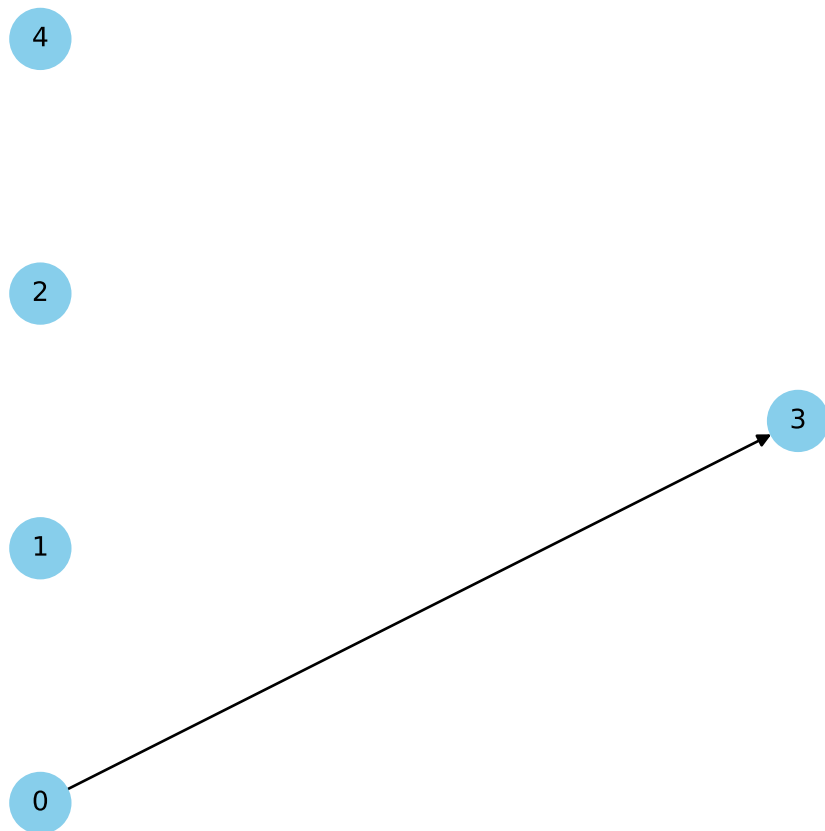
True DAG



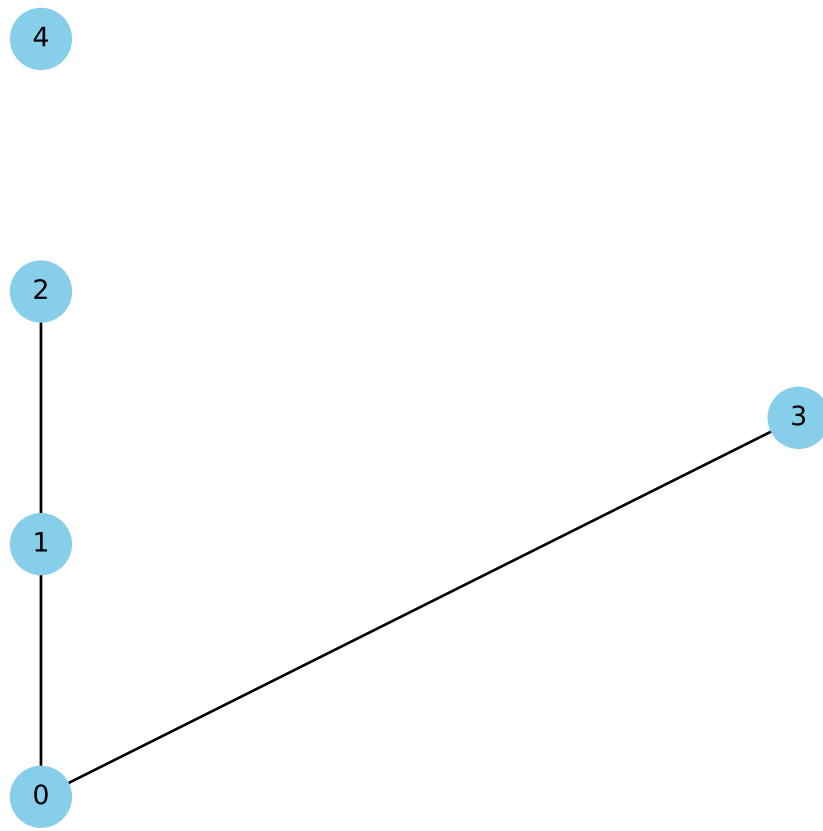
Estimated Skeleton



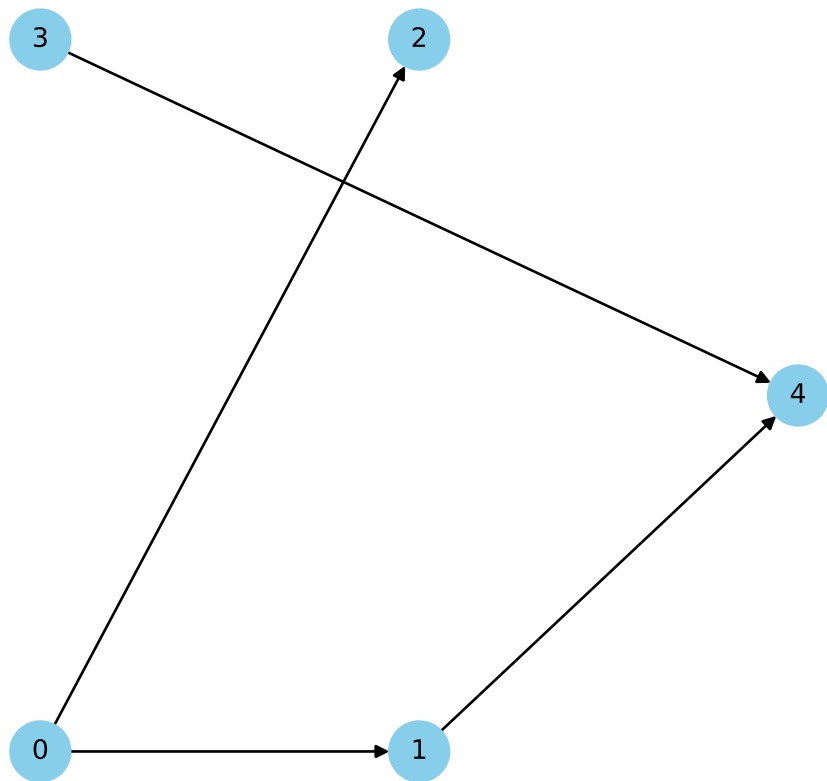
True DAG



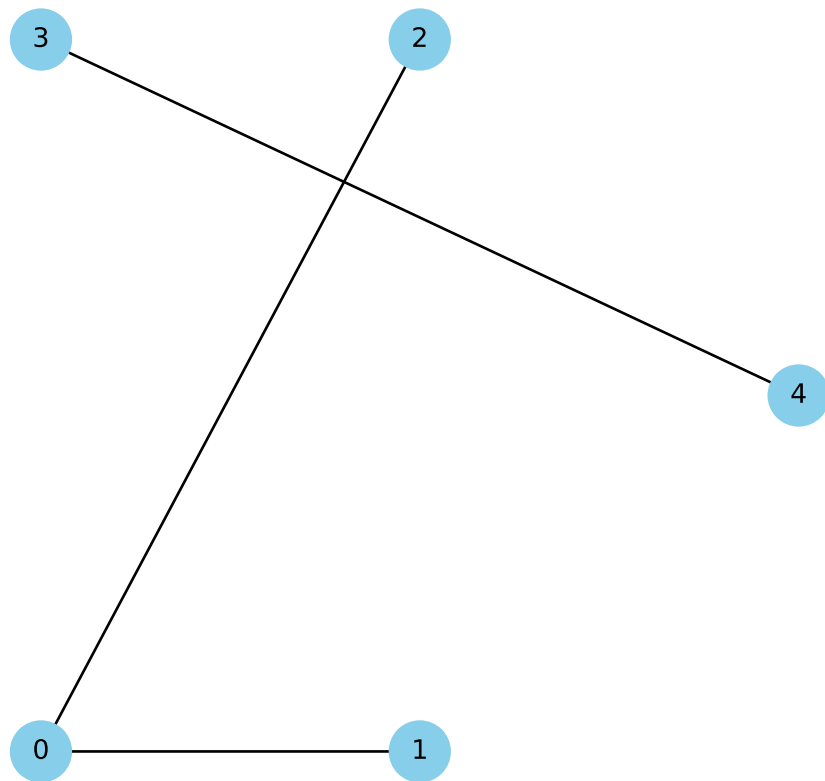
Estimated Skeleton



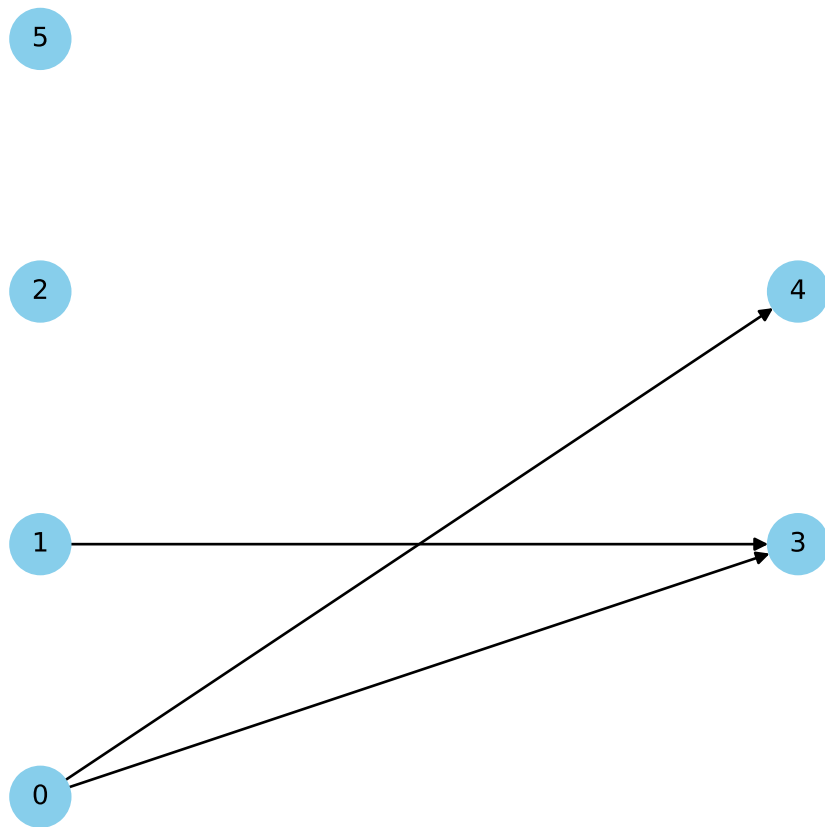
True DAG



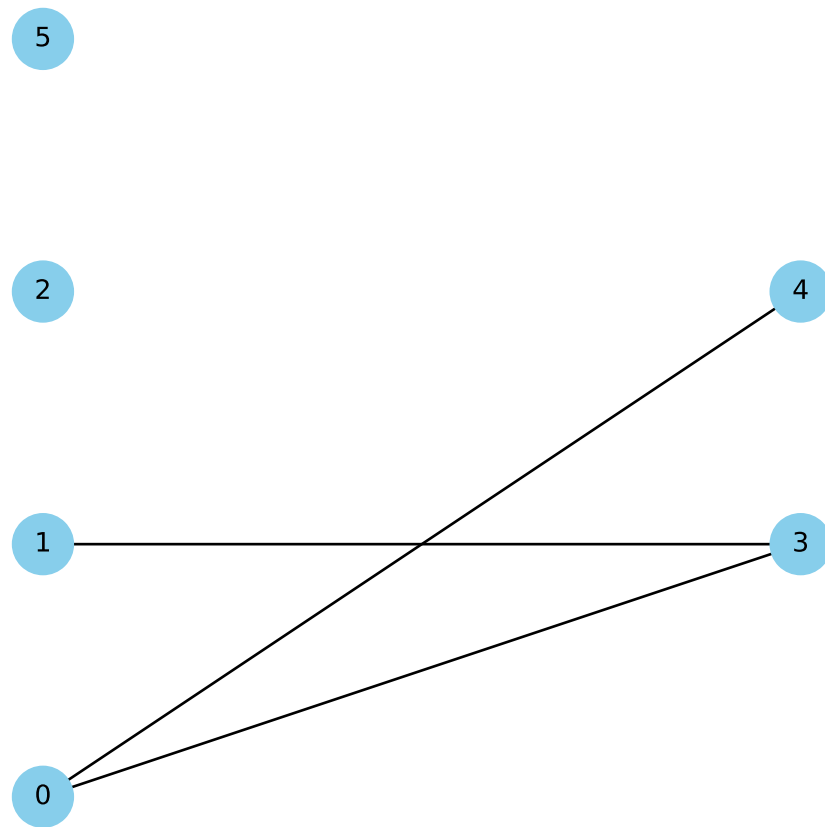
Estimated Skeleton



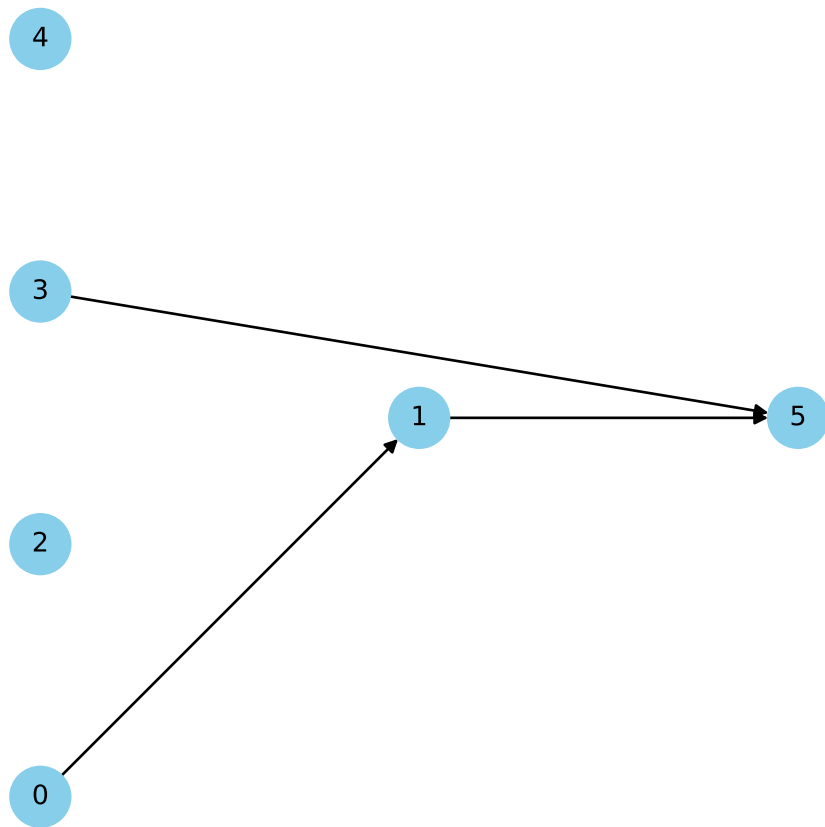
True DAG



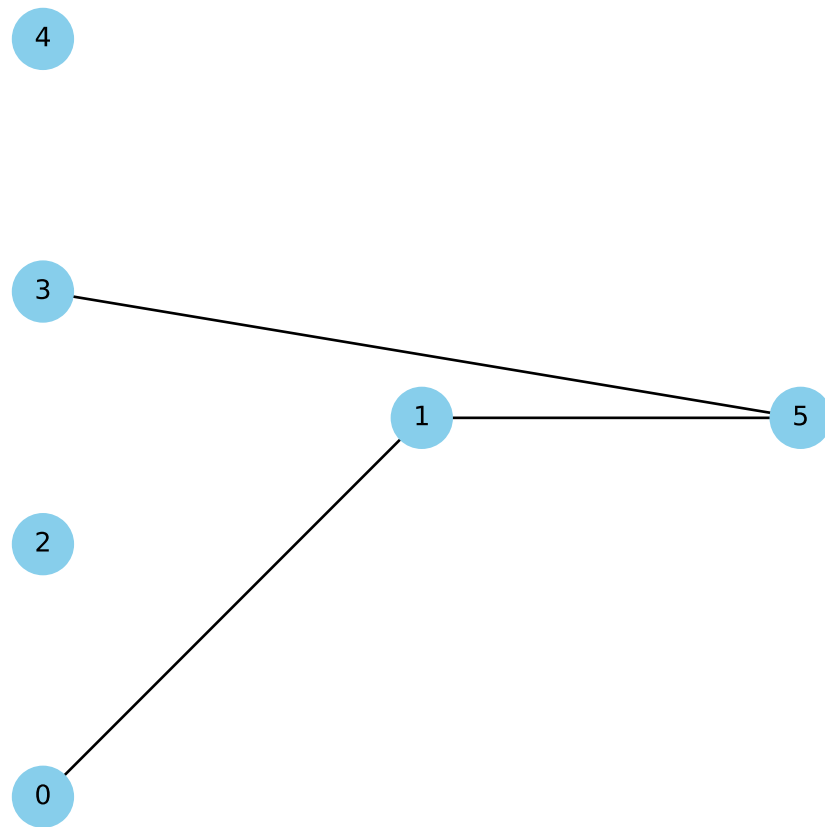
Estimated Skeleton



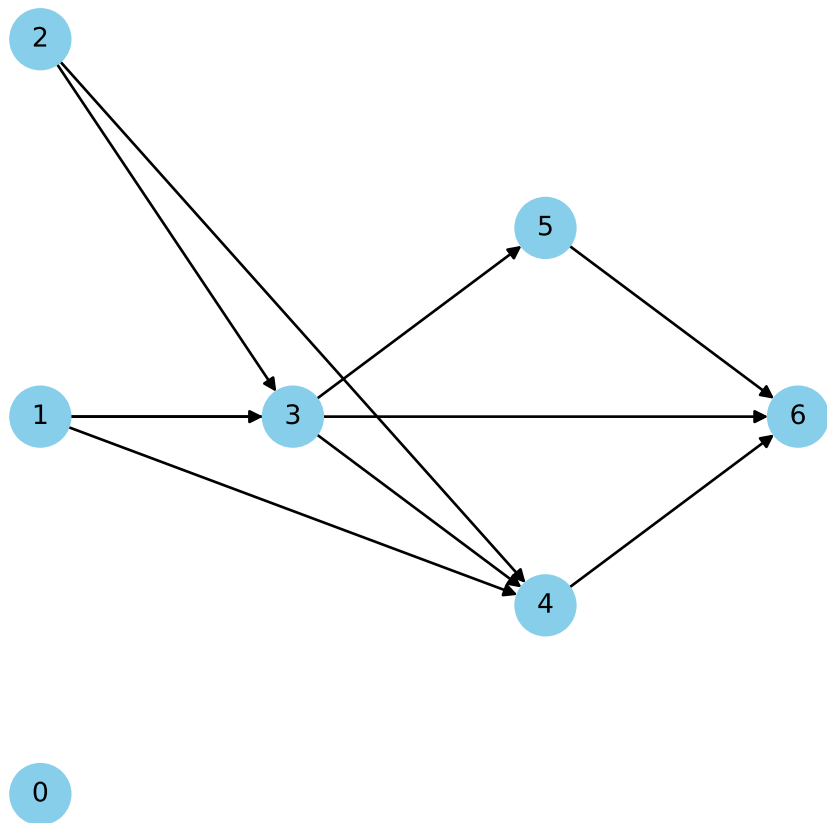
True DAG



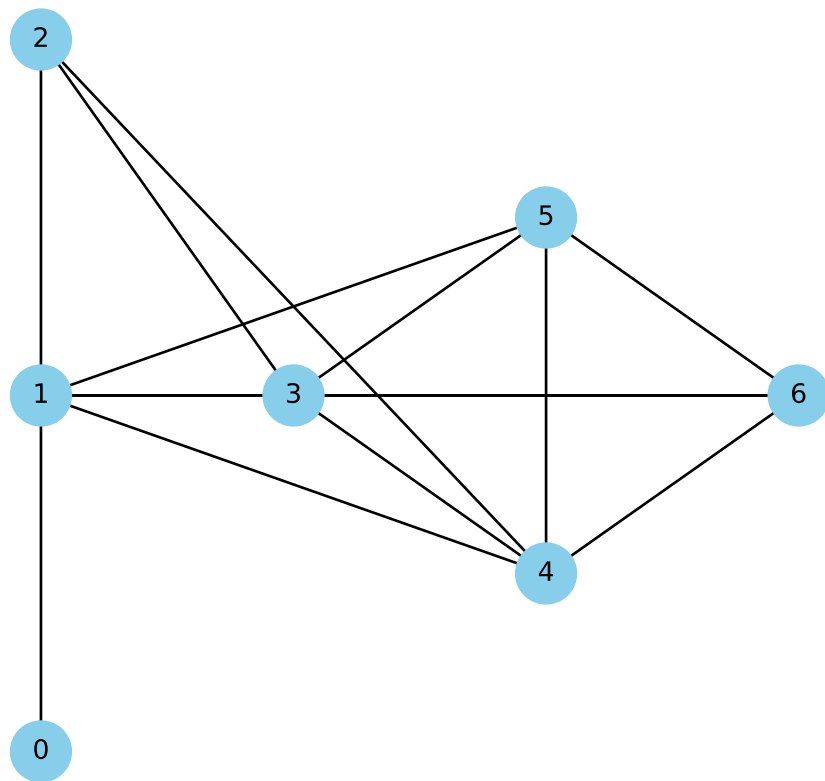
Estimated Skeleton



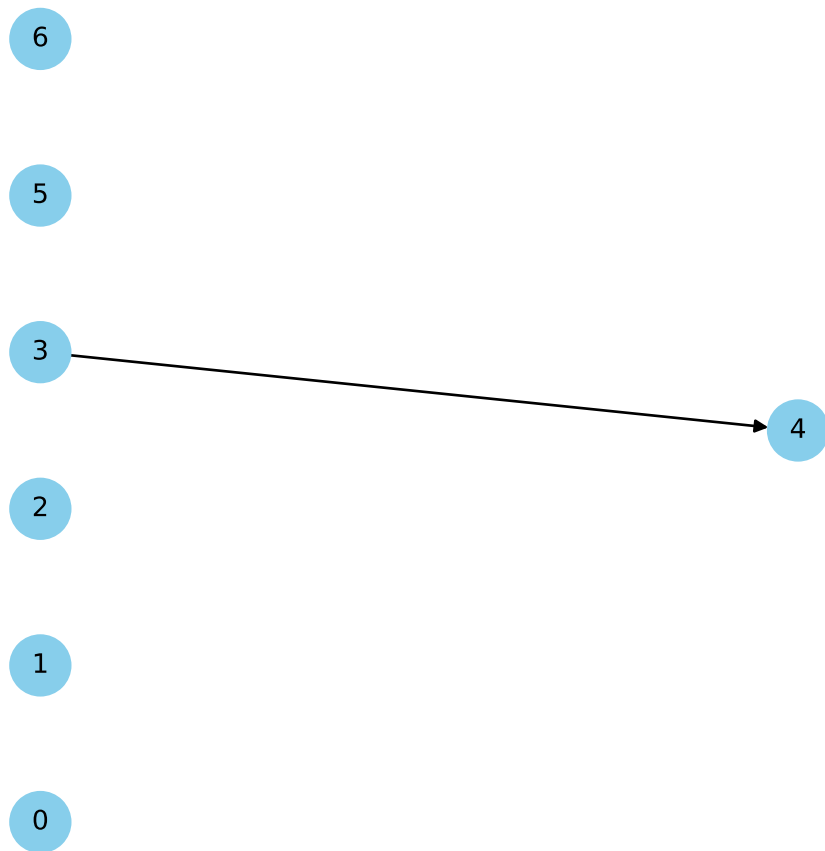
True DAG



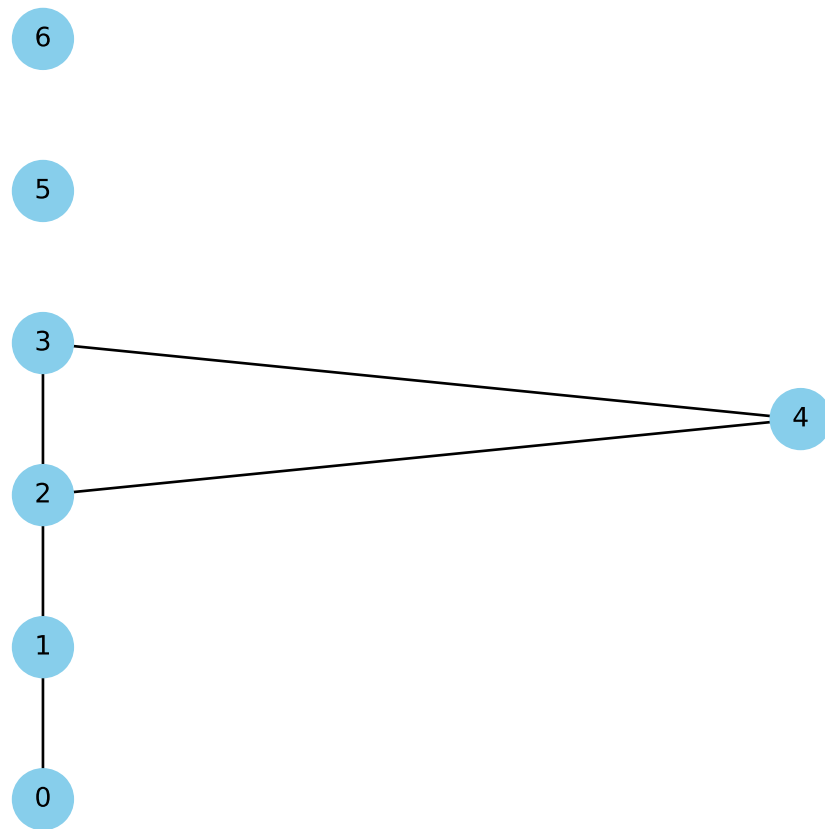
Estimated Skeleton



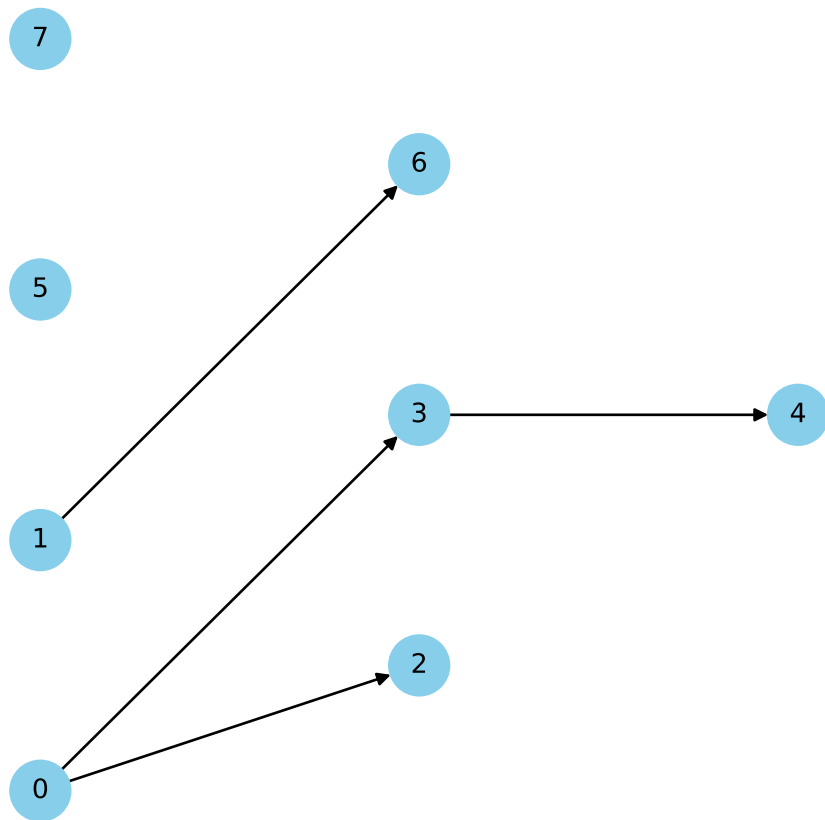
True DAG



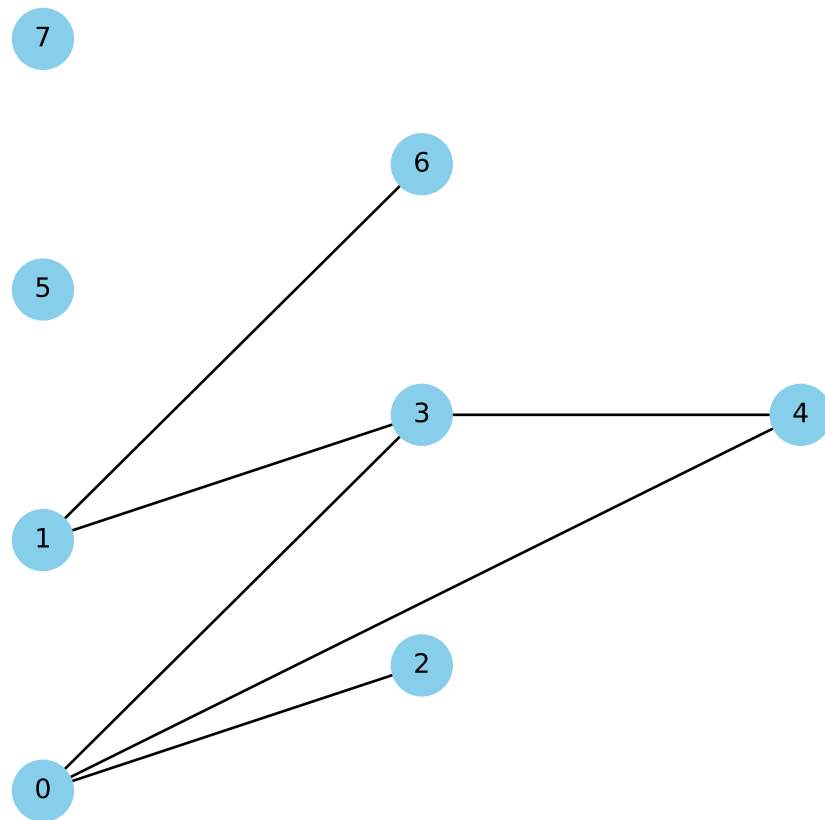
Estimated Skeleton



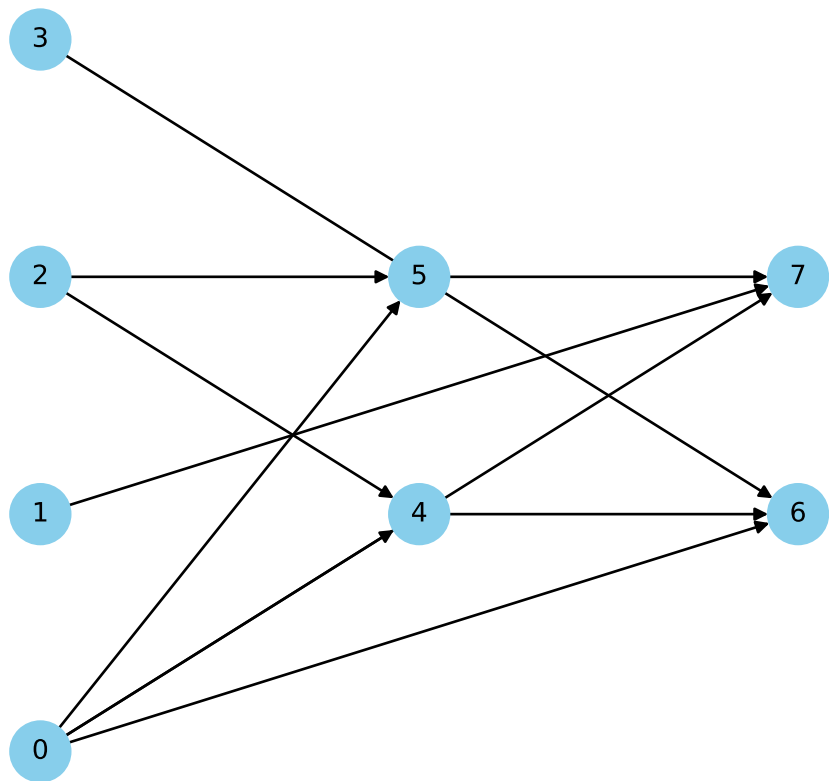
True DAG



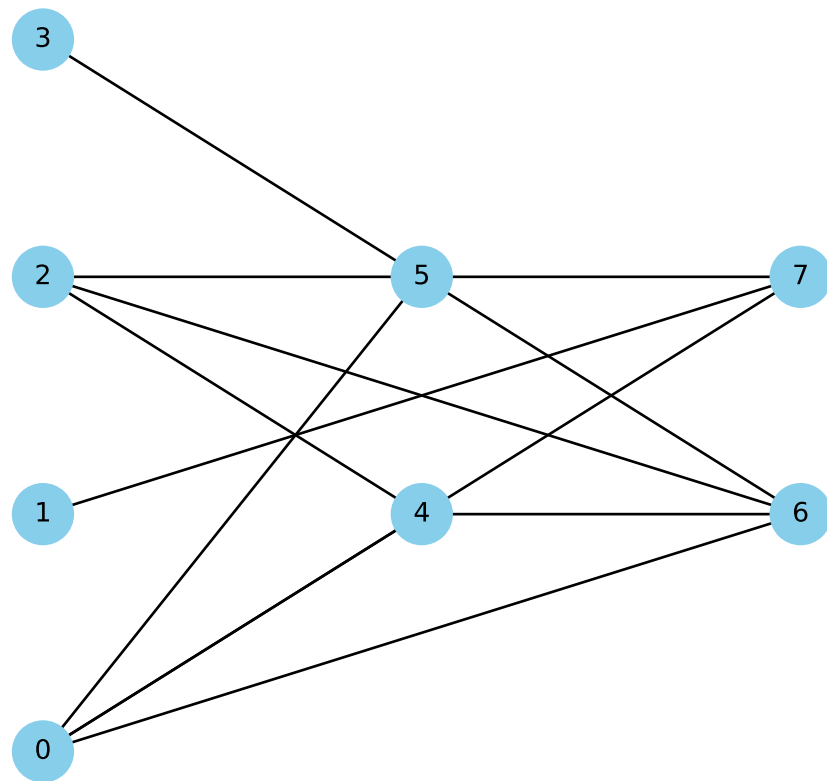
Estimated Skeleton



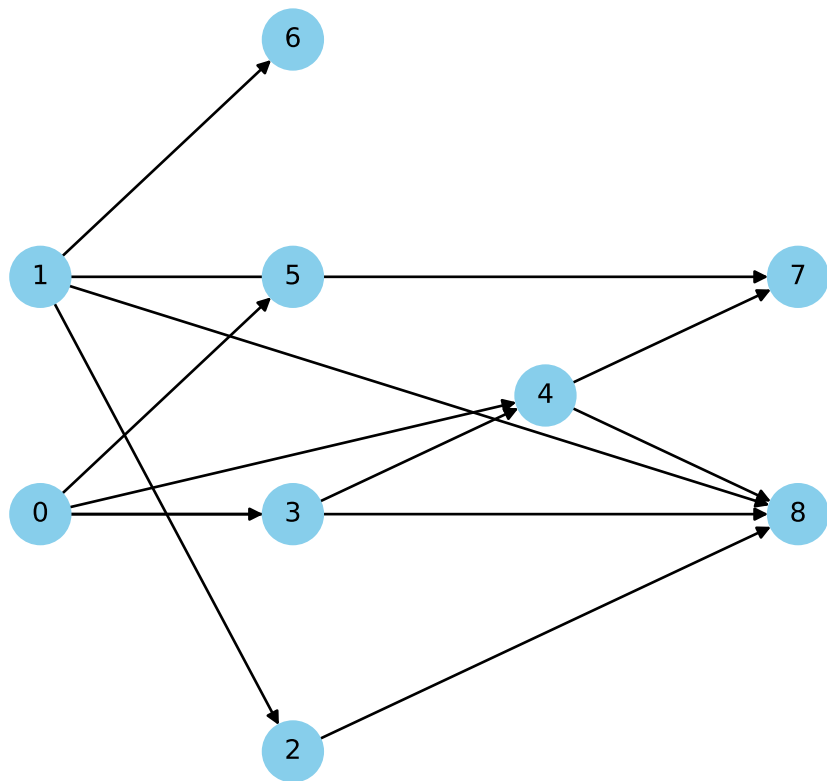
True DAG



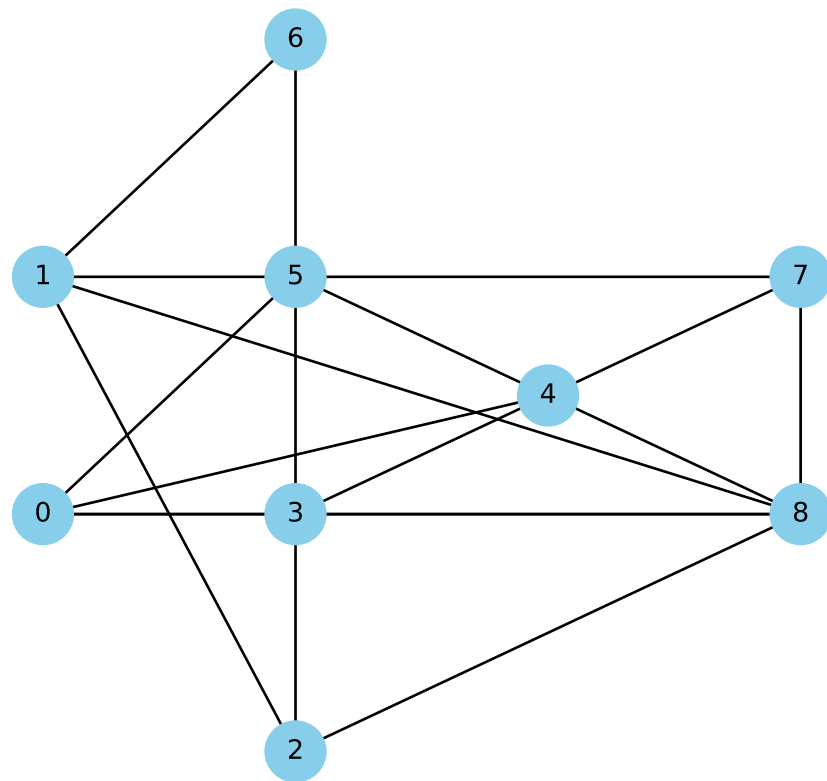
Estimated Skeleton



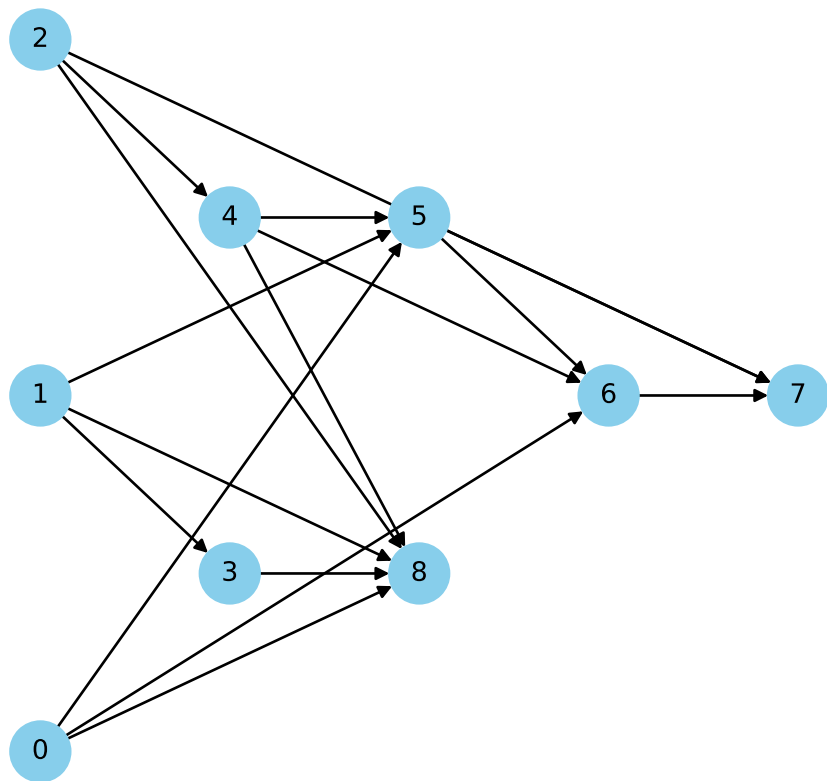
True DAG



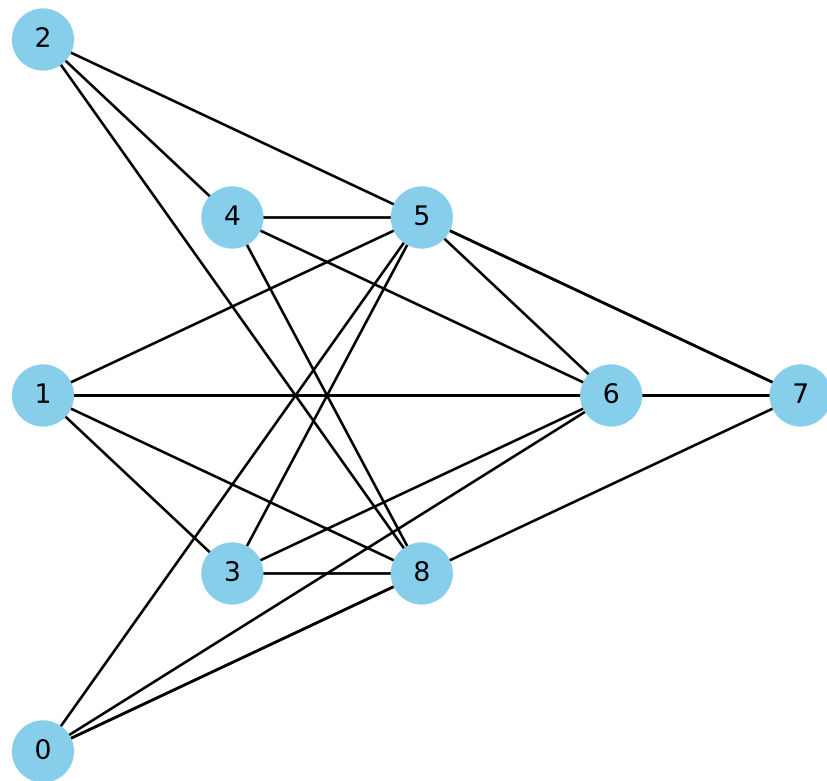
Estimated Skeleton



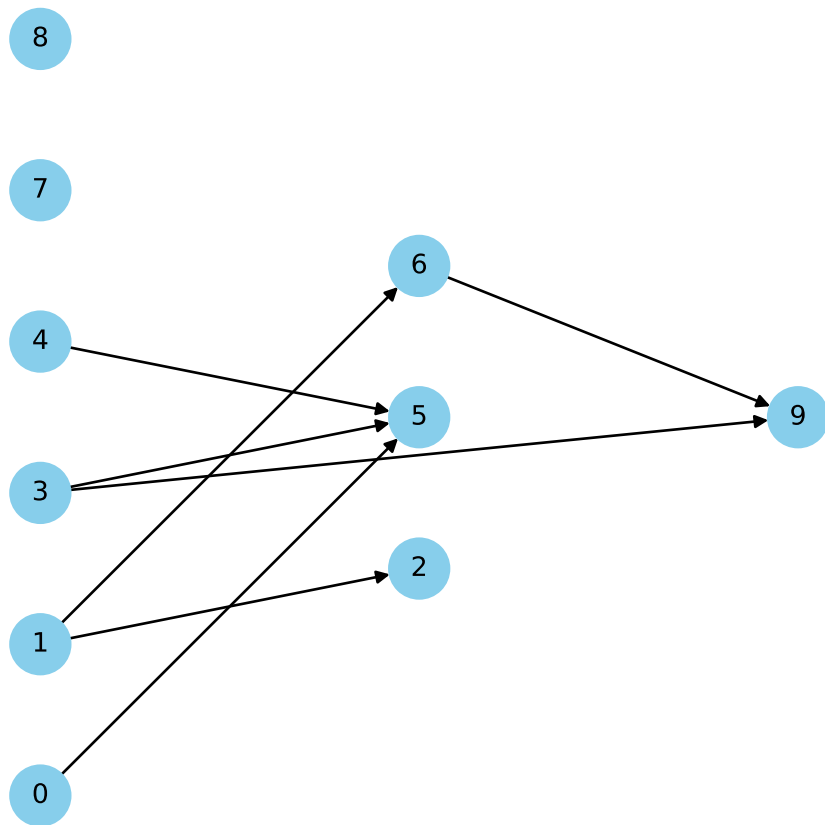
True DAG



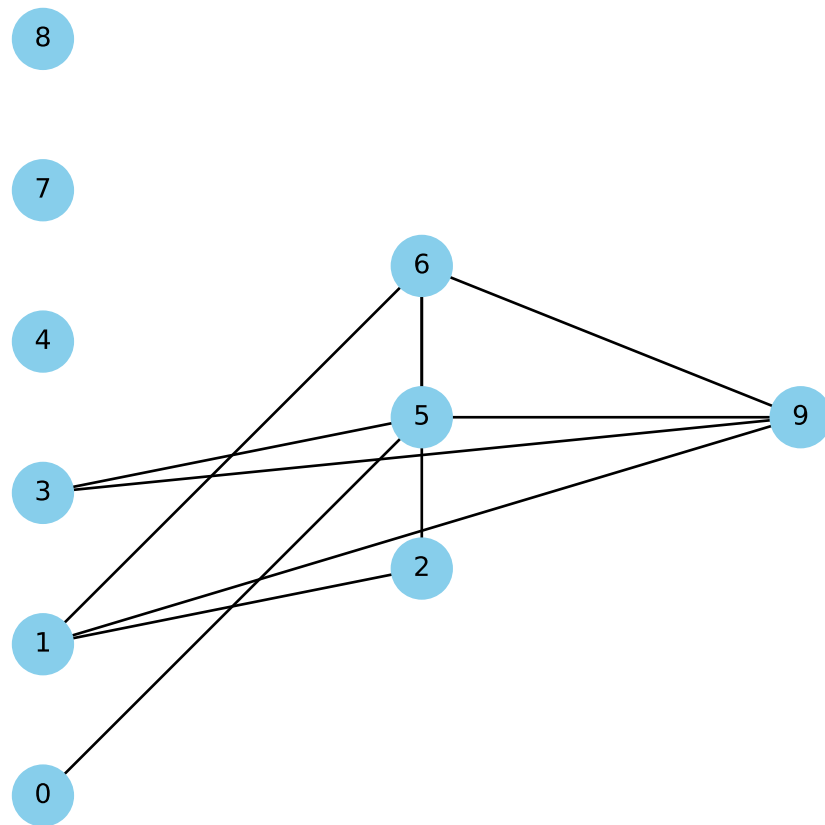
Estimated Skeleton



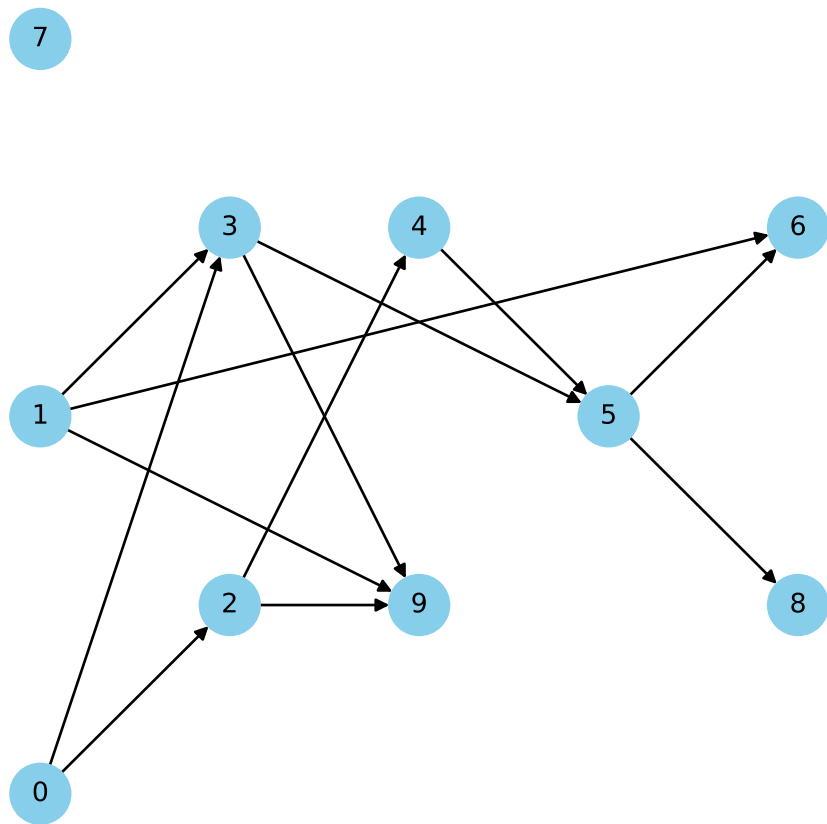
True DAG



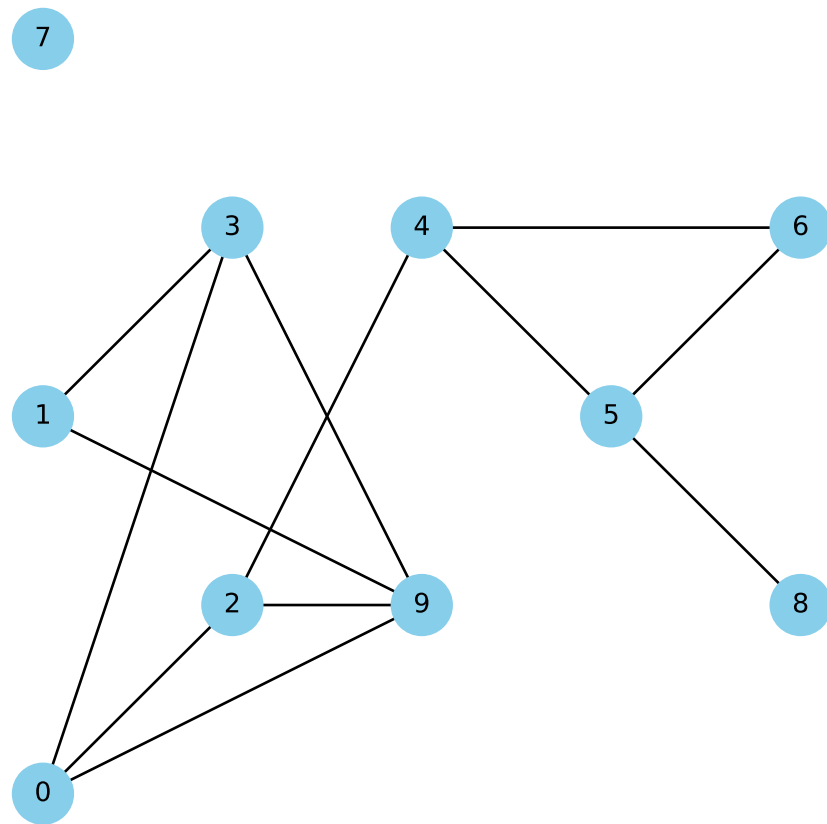
Estimated Skeleton



True DAG



Estimated Skeleton



This PDF gives an overview of the performance of the PC algorithm on discretisable models with faithfulness violations vs. discretisable models without faithfulness violations. The following table summarizes the accuracy of PC skeleton search:

Average accuracy for models with faithfulness violations: 0.917
Average accuracy for models without faithfulness violations: 0.962

Model Size	Faithfulness Violation	Accuracy
3	True	1.000
3	True	0.833
4	True	0.917
4	True	0.750
5	True	0.900
5	True	0.800
6	True	0.967
6	True	0.933
7	True	0.905
7	True	0.952
8	True	0.946
8	True	0.946
9	True	0.986
9	True	0.931
10	True	0.956
10	True	0.944
3	False	1.000
3	False	1.000
4	False	1.000
4	False	0.917
5	False	0.950
5	False	0.950
6	False	1.000
6	False	1.000
7	False	0.905
7	False	0.952
8	False	0.964
8	False	0.982
9	False	0.944
9	False	0.931
10	False	0.944
10	False	0.956