In [2]:
```python
# This function converts adjacency matrices to a dictionary with each nod
# as the nodes conneted to that node as a list.

def adj_mat_dict(adj_mat):
    n = len(adj_mat)
    graph = {}

    for i in range(n):
        node_list = []
        for j in range(n):
            if i != j and adj_mat[i][j] == 1:
                node_list.append(j)
        graph[i] = node_list

    return graph
```

In [ ]:
```python

```