

# 演算法第六次程式作業

The edge connectivity of an undirected graph is the minimum number  $k$  of edges that must be removed to disconnect the graph. For example, the edge connectivity of a tree is 1,

and the edge connectivity of a cyclic chain of vertices is

2. Determine the edge connectivity of an undirected graph  $G = (V, E)$  by running a maximum-flow algorithm on at most  $|V|$  flow networks, each having  $O(V)$  vertices and  $O(E)$  edges.

**Input:** 第一行為一正整數字  $n$ ，代表點的個數，第二行開始代表邊  $\langle u, v \rangle$

```
6
0 1
1 2
2 0
3 4
4 5
5 3
0 3
```

**Output:**

```
1
```