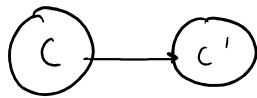


Finding all SCCs.

SCC graph is a DAG

$$f(c) = \max \{ f(x) : x \in C \}$$



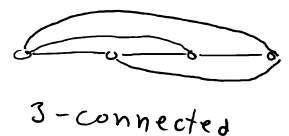
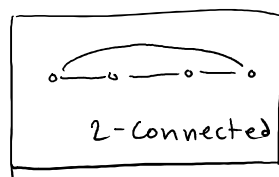
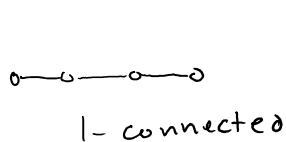
$$f(c) > f(c')$$

so start by picking max finish time, check  $G^T$ .

then pick next largest finish time, check  $G^T$  again...

### Articulation points & Biconnected Components

G connected, undirected

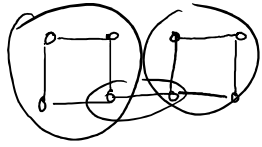


How many disjoint paths between each node?

articulation pt -

Bridge - removal would disconnect graph

Biconnected - contains no articulation pts.



each edge belongs to exactly 1 biconnected component.