

16.6.2

Maximum post numbering and the source of the meta-graph

Post numbering and the meta graph

Claim

Let v be the vertex with maximum post numbering in $\text{DFS}(G)$. Then v is in a SCC S , such that S is a source of G^{SCC} .

Reverse post numbering and the meta graph

Claim

Let v be the vertex with maximum post numbering in $\text{DFS}(G^{\text{rev}})$. Then v is in a SCC S , such that S is a sink of G^{SCC} .

Holds even after we delete the vertices of S (i.e., the vertex with the maximum post numbering, is in a sink of the meta graph).

Reverse post numbering and the meta graph

Claim

Let v be the vertex with maximum post numbering in $\text{DFS}(G^{\text{rev}})$. Then v is in a **SCC** S , such that S is a sink of G^{SCC} .

Holds even after we delete the vertices of S (i.e., the vertex with the maximum post numbering, is in a sink of the meta graph).

THE END

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(for now)