

Strongly Components

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for all x in vertices of G do visited[x] ← FALSE
i ← 0
for all x in vertices of G do
    if not visited[x] then finish(x)
end for

procedure finish(x)
    visited[x] ← TRUE
    for all y adjacent to x do
        if not visited[y] then finish(y)
    end for
    i ← i+1
    f[x] ← i
end procedure

REVERSE_EDGES(G)

for all x in vertices of G do scc_num[x] ← 0
j ← 0
for all x in vertices of G do
    if scc_num[x]=0 then
        j ← j+1
        scc(x)
    end if
end for

procedure scc(x)
    scc_num[x] ← j
    for all y adjacent to x do
        if scc_num[y]=0 then scc(y)
    end for
end procedure

```