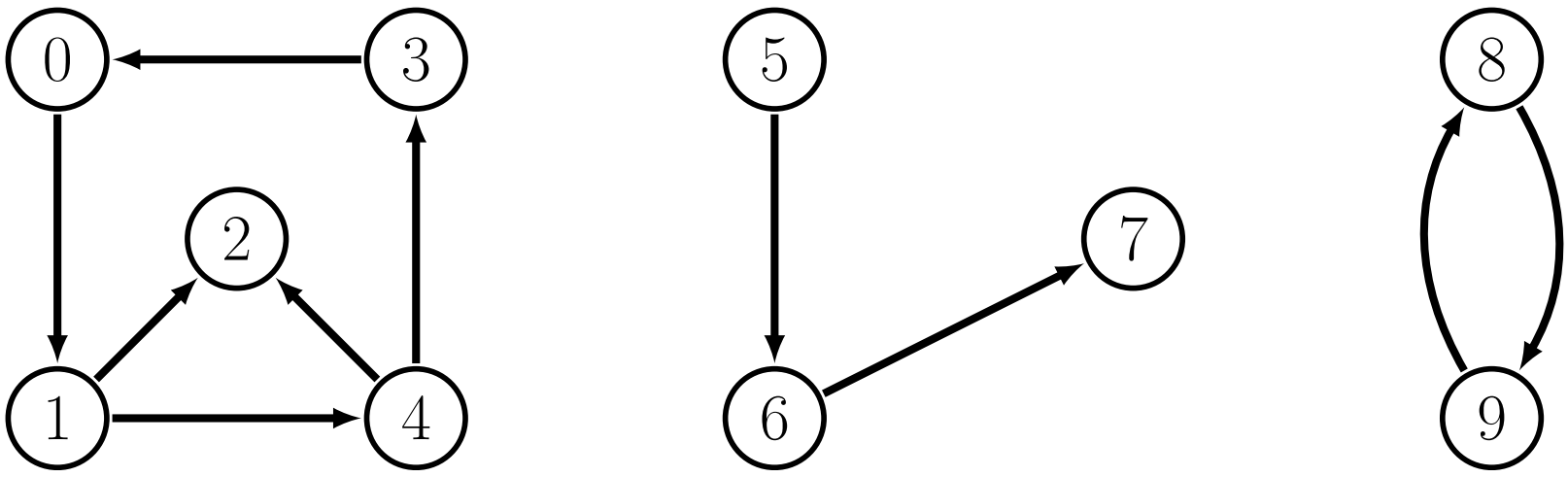
Connectivity in graphs → The number of SCC

360 users solved this problem. Latest completion was about 5 hours ago.

Hard 3 minutes

Given below is a directed graph:



Find the number of strongly connected components in this graph.

Report a typo

Enter a number

6

Correct.

36 users liked this problem. 29 didn't like it. What about you?

Continue

Comments (3) Hints (6) Useful links (0) Hide discussion

S Share something, SOULDEV

Post Please do not post solutions here

Sort by: Last posted

Craig Watt
24 days ago

Count the nodes that are part of a circuit

Reply Report

brianchiang_tw
25 days ago

Hint:
A strong connected component may contains only one node.

Reply Report

SF Stepan Filippov
3 months ago

Note that a strongly connected component can consist of only one node. This doesn't contradict the definition in the theory that says: "there exists a directed path between each pair of nodes in this subgraph". If you want to learn

more about why it happens, read this article https://www.quora.com/What-is-vacuous-truth otherwise just treat it as a part of the definition.

4 Reply Report

Timur
3 months ago

Good example here: https://www.geeksforgeeks.org/strongly-connected-components/

9 Reply Report

A5 CeCH
about 1 month ago

Thanks for the care. Really help

Reply Report

Amir Hossein Biglari
about 1 month ago

very helpful, thanks.

Reply Report