

A vertex is an articulation point if:

1) it it's root of dfs tree,

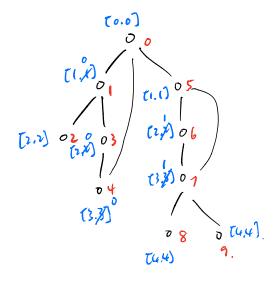
=) there exists two children

not yet visited nodes adjacent to u.

@ if it's not root,

there exists a back edge from any descendants to )
The ancestors

by maintaining a low value which is the lowest depth a node can reach



i: depth of the node.

i. low value of node.

o. =) it's root with 2 children.

1.5.7 =) it's not root, but there exists

descendant such that

low(v) >= visited(u)

ex: for point 1, low[2] > = visited[1]

- 5, low[6] >= visited[5]
- 7. [ow[8] >= visited[7]