Date: / / Day -217 anont). Craph - 21 Strongly Connected Componenti ent); In a Directed graph, SCC is a subset of =) vertices where every vertex in the subset is reachable from every other vertex in the same subset by traversing direct edges. So, here, we can see that 0 & 3 are strongly connected becan use we can go from 0 to 3 and from 3 to 0 so, in this way we have four strongly connected component in the group =1 So, if we apply BFS on DFS then we can will traverse all the hodes in one go. But we don't want this. =

	Bugs: Date: / /
7	So, we can imagine the graph as _
=)	scc1 $ scc2 $ $ scc3 $ $ scc3 $
-)	So, if we change the direction we between two strongly component than we can solve the problem.
=)	There will be eyele present in every SCC.
= E	So, if we reverse the direction of the edges then also no impact
	an the beh SCC.
=)	Some will use this property.
=)	we will follow the order of scc to apply DFS.
	Son how to achieve the order. Order is just saying that SCC1 will be visited before SCC2.
	sort that can help in this situation

		Page:
*		
1	=)	Sou il we use DFS method of 7,5 then
		So, if we use DFS method of 7,5 then we get an a stack of Inaversed
		nodes.
	=1	Also, rember remember that T.S.
		sort dan't give correct answer when
n		cycle is present in the group.
	=1	But here, it can work.
derivative and the second		
	=	we use that stack of T.S for finding
		our answer.
1		195
	=)	At the time of T.S. the graph will be
		honmal.
	=)	After that, we reverse the direction of
	,	TO DECOMPA
	=	And then T.S stack will help in
-		getting the order.
	\Rightarrow	This whole alow is known as
		This whole algo is known as kosanajus Alganithm.
	=)	T.S helps in confirming that (2) will always come before (1).
		always come before (1).
hich.	=	After that we start apply DFS and
		if we get any unvisited hade from TS
		if we get any unvisited hade from TS stack then we increase the SCC value

	Date: / /
	by 1
=1	And apply DFS on this node.
	men appropriate on the state of
	$T_{i,C_{i}} \rightarrow O(V+E)$
	S.C. > O(V+E)
1	
	white a harmon was night in hiterature.
	and the second s
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