

The University of Lahore

Faculty of Information Technology

Assignment Cover Letter

(Individual Work)

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SAP ID	70082385	Title of Assignment	03
Course Code	CS 11303	Due Date	16/10/2022
Course Name	Operating Systems	Submission Date	10/11/2022
Section	Т	- Subinission Date	

The assignment should meet the below requirements:

- 1- Assignment (hard copy) is required to be submitted on clean paper and soft copy as per lecturer's instructions.
- 2- Soft copy assignment also requires the signed (hardcopy) submission of this form, which automatically validates the softcopy submission.
- 3- The above information is complete and legible.
- 4- Compiles pages are firmly attached.
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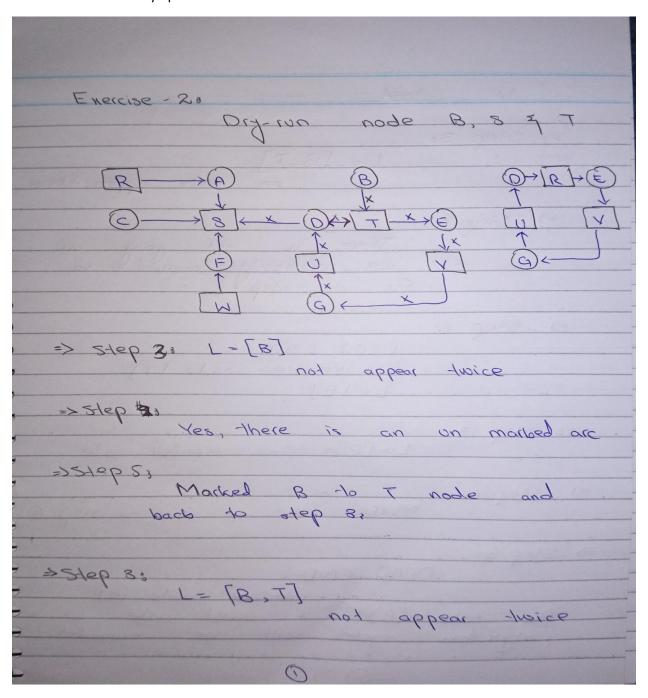
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EXERCISE-2

Dry run deadlock detection algorithm (STEP 1- 6) for a resource allocation graph for a node B, S and T and detect deadlock exists or not?

NOTE: The file is already uploaded on SLATE.



>> Step 43 Yes, there is unmarked are b(00 T 10 E =) 2/6b 23 Marked T to E node and pack to otep 33 L= [B, T, E] => 5-lep 3. L=[B, T, E] => 5/ep 4; Yes, there is unmarked arc b/w E to Y: =) 24eb 21 Marked E to V node and back to step 3, L=[B, T, E, V] And these step goes on and the last node will be L= [B, T, E, Y, G, U, D, S] 0

L= [B, T, E, V, G, U, D, S] + step 4: No, there is no commented outgoing are from 5. Go to step 6. => 5-lep 6: DEAD END -Remove (ST node. Back to step 3. => 51ep 3; L=[B, T, E, Y, G, U, D] no node appear twice. -> Step 41 From v. to D marked are Go 10 step 6. >3-1ep 6: DEAD END Romove node [D] L= [B, T, E, V, G, W] And the goes on like this

In last -1 Step 33 L= [B,T] no rode appear fisice =) 8/ep 4: There is not going but use previously marked (=) 8-lep 62 OM3 OA3O Remove node [T] L=[B]_ >) 3/ep 3, L=[B] no repeated node =) 3tep 4: Marked arc - Ga to step 6 => Step 61 DEAD END Removo rade (B) As node [B] is initial node so algorithm eyele will be terminated. (9)

node [8] => Did-100 => 5/ep 23 L= [8] => 246b g= L= [5] not appear twice => 5tep 4:
There is no outgoing are 80 Go to step 61 3/ep63 DEAD END -The node [8] is a initial node so the algorithm will be terminate. (3)

Dig-on of node Ti Step 20 L= [T] 5tep 3: L= [T] not appear twice Step 41 Yes, there is unmarked orc from I to E. Step 53 Marked the arc from T to and back to step 3. Step 33 L= [T, E] not reapted Step 4; Yes, there is no are blue Etal Step 53 Marked are E, V and man to so this are you on on last. 6

Step 30 L=[7, E, V, G, U, D, 8] Step 43 There is no outgoing are Step 6, DEAD END Remove node [5] C10 10 step1 3 80 this goes like this Step 33 [2[T] no repealed twice 31ep41 There is no outgoing marched ONS OASO This is initial node [T] so the algorithm terminable.