

Temporal Logic	C-step 1: 1, 2. C-step 2: 3, 4. C-step 3: 5, 6. C-step 4: 7
Model Checking	2) The mobility for each hode (from 1 to 7) in OCG is:
BDD and Symbolic Model	0, 1, 0, 0, 0, 1, 0 0, 1, 1, 0, 1, 0, 0
Introduction to	$ \bigcirc 0, 0, 1, 0, 1, 0, 0 \\ \bigcirc 0, 0, 1, 0, 1, 1, 0 $
Digital Testing	No, the answer is incorrect.
Embedded	Score: 0
System Hardware Testing	Accepted Answers: 0, 0, 1, 0, 1, 0, 0
Embedded System	3) A valid list schedule for the OCG assuming only one adder resource is: 1 point (Note: Assume the priority of a operation as (1 / (mobility + 1))).
Hardware Testing - II	
Advances in	1, 2, 3, 4, 5, 6, 7
System Hardware	$\bigcirc 1, 2, 3, 5, 4, 6, 7$
Testing	No, the answer is incorrect.
Advances in	Score: 0 Accented Answers:
System	1, 2, 4, 6, 3, 5, 7
Testing - II	4) A new addition (+) operation having index-9 has been introduced to the OCG. This newly 1 point
Testing for Embedded Software	included operation takes the output of operations 1 and 3 as input and floats its output on operation 7. What will be minimum number of resources (i.e., adders) required to schedule this modified OCG with a latency bound of 4.
Systems	
	O 2
	3
	4
	No, the answer is incorrect.
	Score: 0
	3
	5) Consider the modified OCG discussed in Q4. Let binary decision variables of type $x(i,j)$ 3 <i>points</i> denote the assignment of operation-i at time step-j. $x(i,j)$ is 1 if operation-i is scheduled at time step-j. $x(i,j)$ is 0 otherwise. There are two adders and latency bound is 5. Determine the correct inequality representing the resource constraint at time step 2.
	(3,2) + x(4,2) + x(5,2) + x(9,2) <= 2
	(1,2) + x(2,2) + x(3,2) + x(4,2) + x(5,2) <= 2
	$ = x(1,2) + x(2,2) + x(3,2) + x(4,2) + x(5,2) + x(9,2) \le 2 $
	(1,2) + x(2,2) + x(3,2) + x(4,2) + x(5,2) + x(9,2) + x(6,2) <= 2
	No, the answer is incorrect. Score: 0
	Accepted Answers: $x(1,2) + x(2,2) + x(3,2) + x(4,2) + x(5,2) + x(9,2) \le 2$

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6) Consider the modified OCG discussed in Q4 and Q5. Determine the correct inequality **3 points** representing the dependency constraint between operations 9 and 3.

x(9,2) + x(9,3) - x(3,1) - x(3,2) >= 1 x(9,2) + x(9,3) + x(9,4) - x(3,1) - x(3,2) - 3x(3,3) - 1 >= 0 2x(9,2) + 3x(9,3) + 4x(9,4) - x(3,1) - 2x(3,2) - 3x(3,3) >= 0 2x(9,2) + 3x(9,3) + 4x(9,4) - x(3,1) - 2x(3,2) - 3x(3,3) >= 1No, the answer is incorrect.
Score: 0

Accepted Answers: 2x(9,2) + 3x(9,3) + 4x(9,4) - x(3,1) - 2x(3,2) - 3x(3,3) >= 1

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