**In-Class Assignment**

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1. Find the integration sequence using the bottom-up approach.

M1

M2

M3

M7

M6

M4

M9

M5

M8

Step #1: IS1 = M3 + M4 (need: M2’’ software driver)  
Step #2: IS1 = IS1 + M2 (need: M1” software driver)   
Step #3: IS2 = M7 + M8 (need: M5’’ and M6’’ software driver)   
Step #4: IS3 = M6 + M9 (need: M5” software driver)

Step #5: IS4 = IS2 + IS3 + M5 (need: M1” software driver)  
Step #6: IS = IS1 + M1 (need: M5’ stub)  
Step #7: IS = IS + IS4

1. Find the class test order for the following.

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* There are only two independent classes C4 and C6. Hence class test order for C4 and C6 is 1.
* Nearest neighbour of C4 and C6 are C3, C7, C8, C5. However, C8 is dependent on C7, which has not been numbered yet. Hence, C3, C7 and C5 will have 2.
* Now the nearest neighbour of 2nd ordered class test are C2, C8 and C1. However, C1 is also dependent on C0 which has not been numbered yet. Therefore, we have C2 and C8 as number 3.
* Now the nearest neighbour of 3rd ordered class test is C0. Therefore, we have C0 as number 4.
* Now the nearest neighbour of 4th ordered class test is C1. Therefore, we have C1 as number 5.