## 21 Lecture - CS301

## **Important Mcqs**

1.	what is the first node added to the AVL Tree in the building example?  a) 1  b) 2  c) 5  d) 8	
Answer: c) 5		
2.	What is the second node added to the AVL Tree in the building example?  a) 1  b) 2  c) 3  d) 8	
Answer: b) 2		
3.	How many rotations are performed to maintain balance after inserting node 1 in the AVL Tree?  a) 0 b) 1 c) 2 d) 3	
Answer: b) 1		
4.	What is the height of the AVL Tree after inserting node 3?  a) 1  b) 2  c) 3  d) 4	
Answer: b) 2		
5.	Which rotation is performed after inserting node 6 to maintain balance in the AVL Tree?  a) Left rotation b) Right rotation c) Left-right rotation d) Right-left rotation	
A	nswer: a) Left rotation	

6. What is the height of the AVL Tree after inserting node 9?

a) 3

	b) 4 c) 5 d) 6	
Ar	nswer: b) 4	
	What is the root node of the AVL Tree after inserting all the nodes?  a) 1  b) 2  c) 5  d) 8	
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8.	Which is the last node added to the AVL Tree in the building example?  a) 6 b) 8 c) 9 d) 3	
Ar	nswer: c) 9	
9.	What is the maximum height of an AVL Tree with 7 nodes? a) 2 b) 3 c) 4 d) 5	
Answer: b) 3		
10.	How many rotations are performed in total to maintain balance while building the AVL Tree in the example?  a) 2 b) 3 c) 4 d) 5	

Answer: c) 4