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# AVL Tree. Treap. Trie

Seminar 4.



# Plan for the day

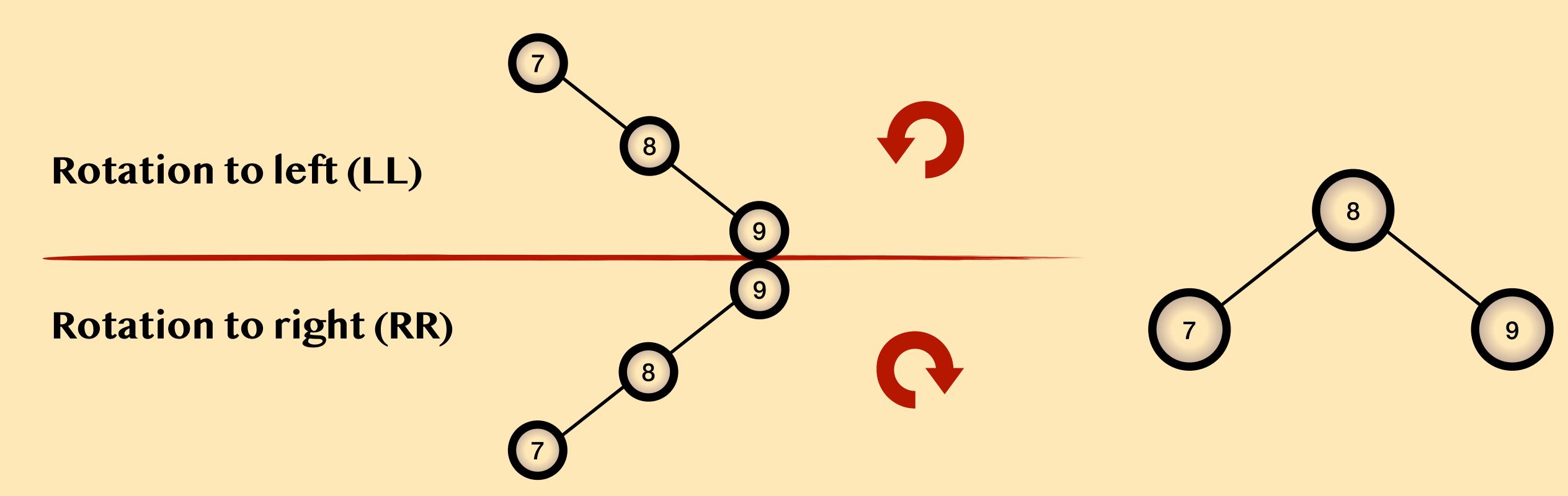
	Seminar 1	Seminar 2	
All together	<ol> <li>Repeat rotation         methods</li> <li>Implement AVL         insertion</li> </ol>	<ol> <li>Treap class &amp; insertion</li> <li>Revise all past</li> </ol>	
Prolevel	<ol> <li>Implement AVL insertion</li> <li>Treap class &amp; insertion</li> </ol>	1. Trie class & insertion	

# Plan for the day

#### tips for Pro

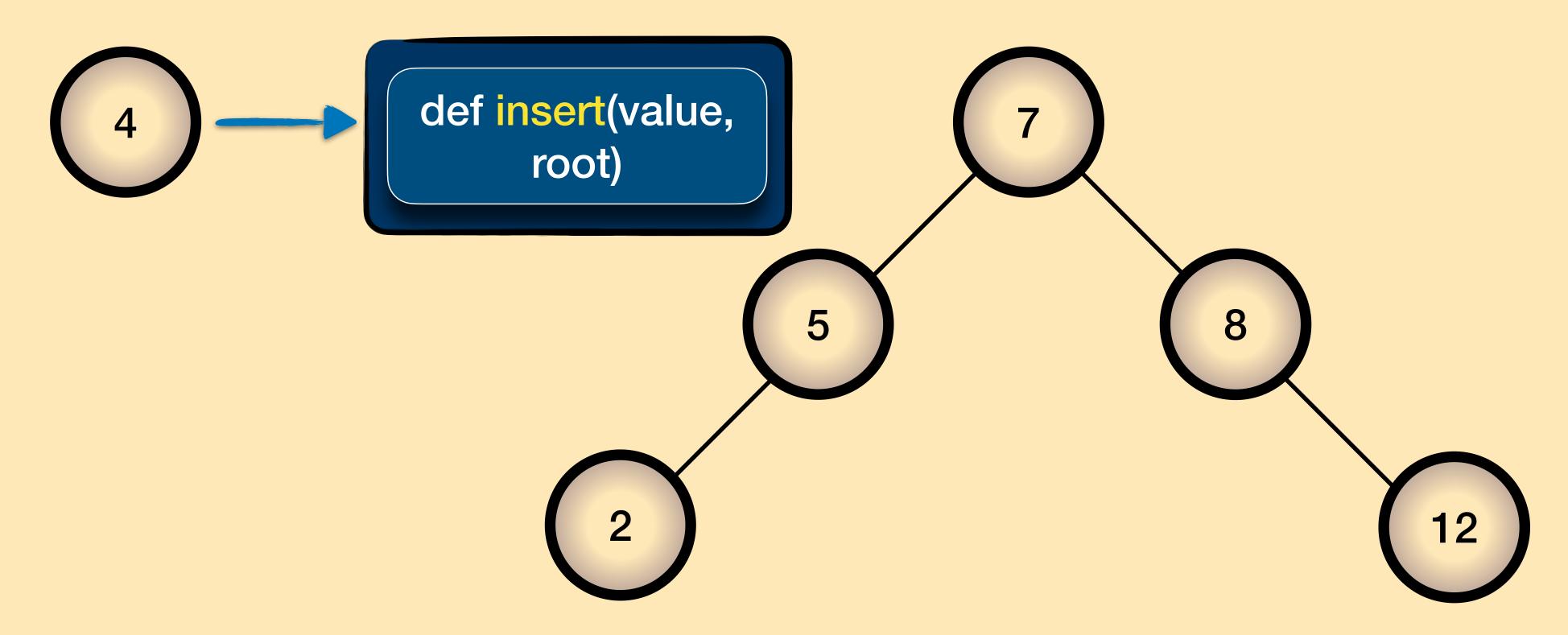
- 1. All 4 rotation cases for AVL insertion:
  - o How balance value impacts the choice of rotation?
  - Find the second parameter, affecting the rotation choice
- 2. Treap:
  - Just use rotation for priority instability
- 3. Trie
  - Save empty list of letters for each node

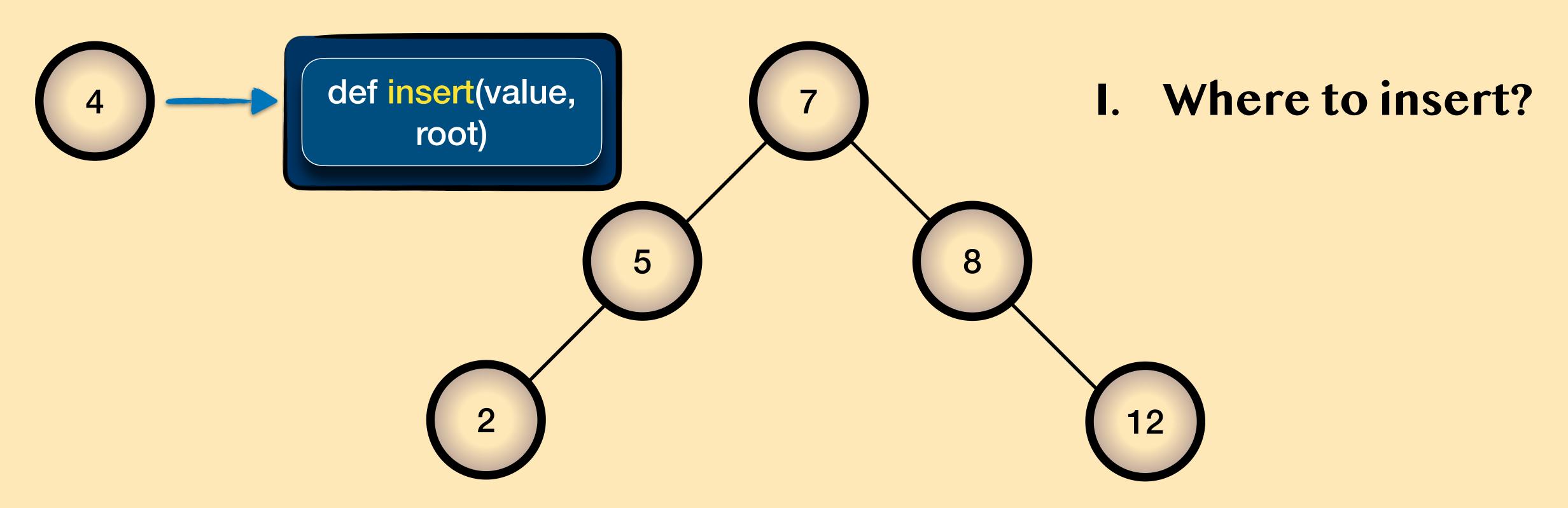
#### AVL: rotation cases

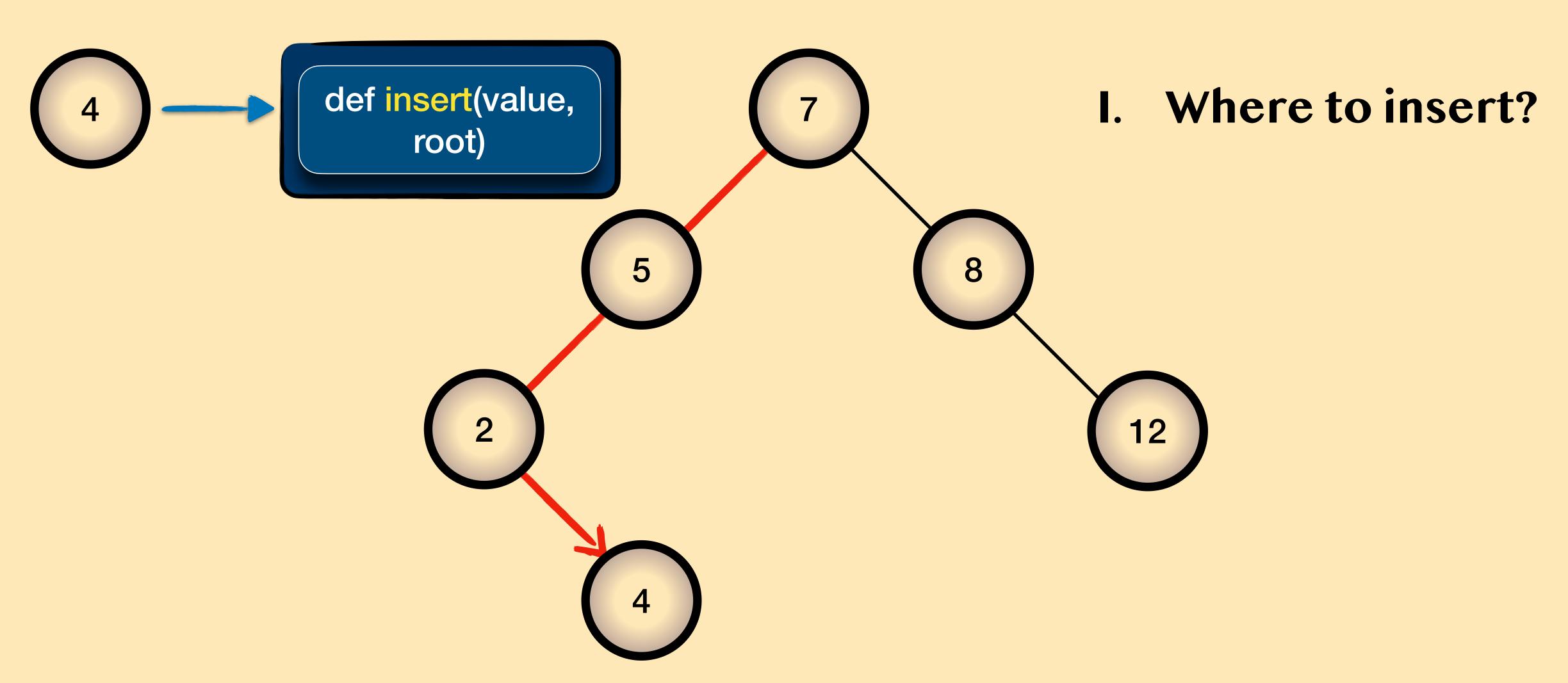


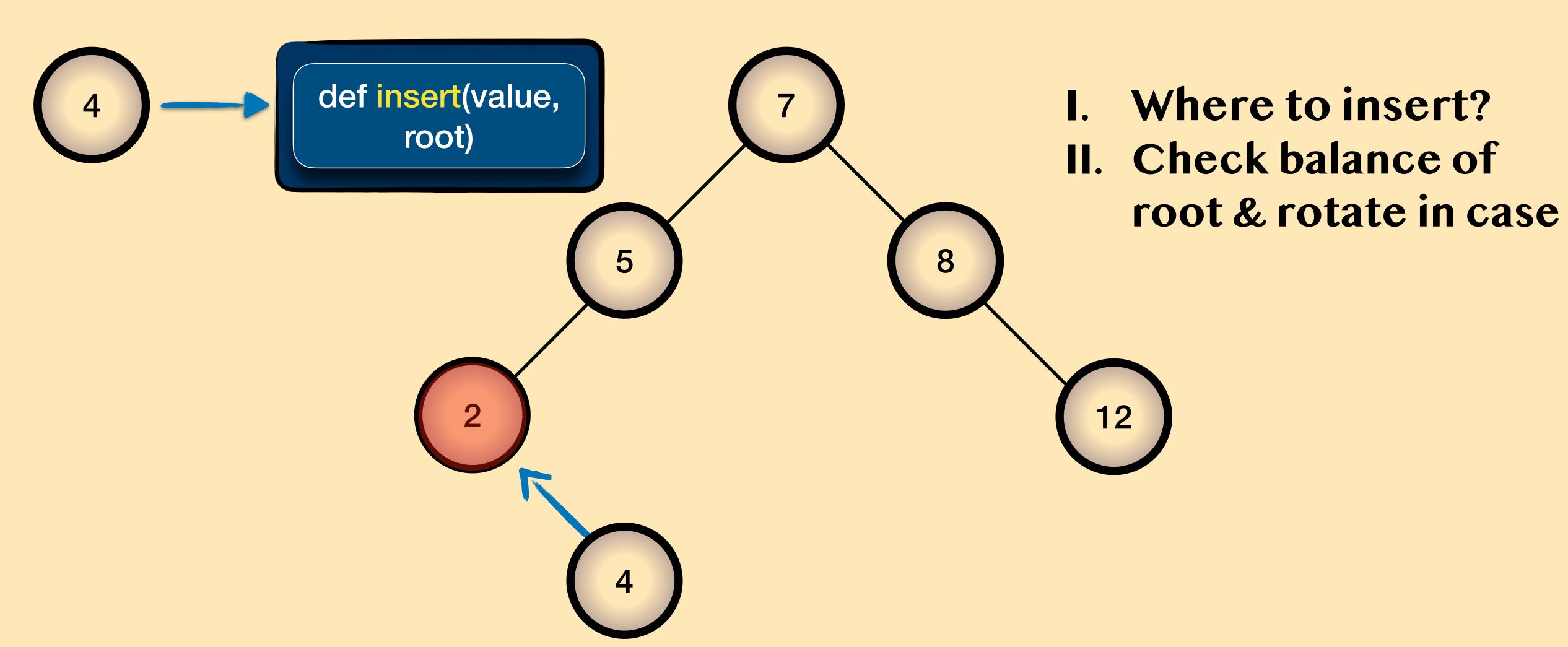
Left right rotation (LR)

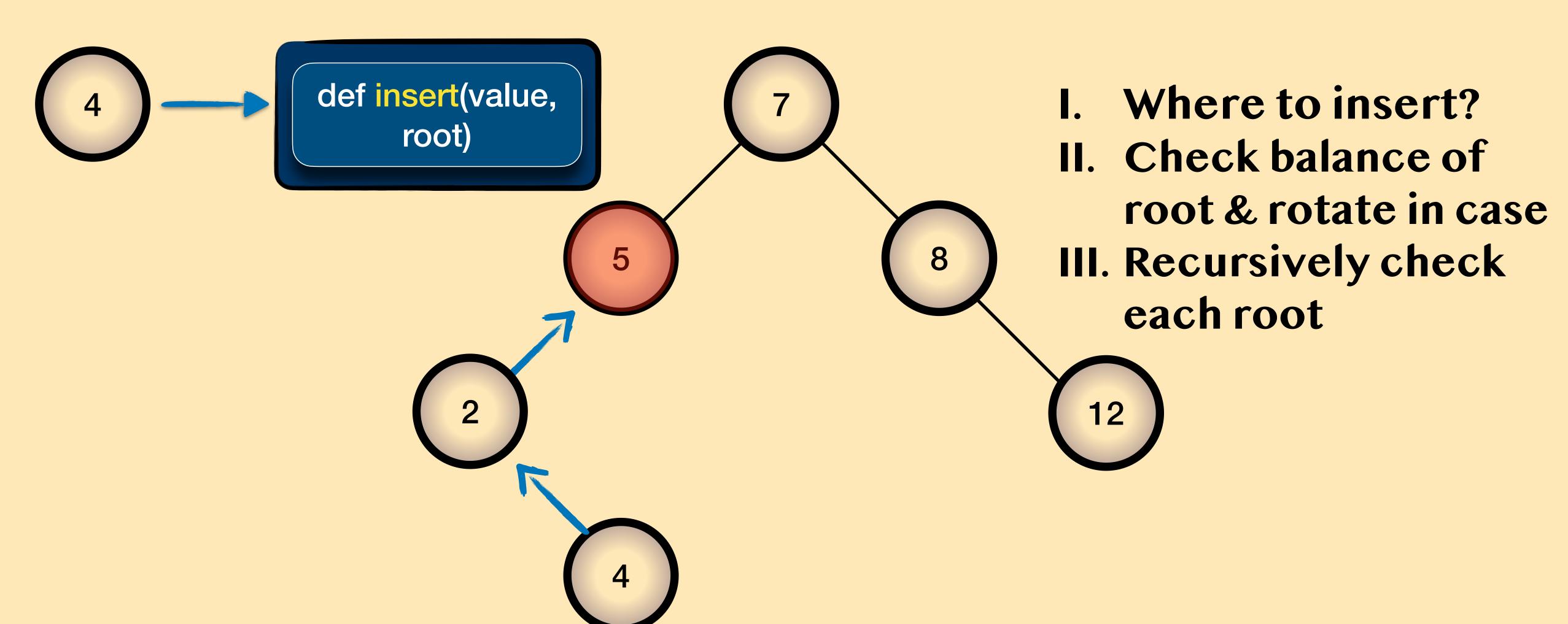
Right left rotation (RL)

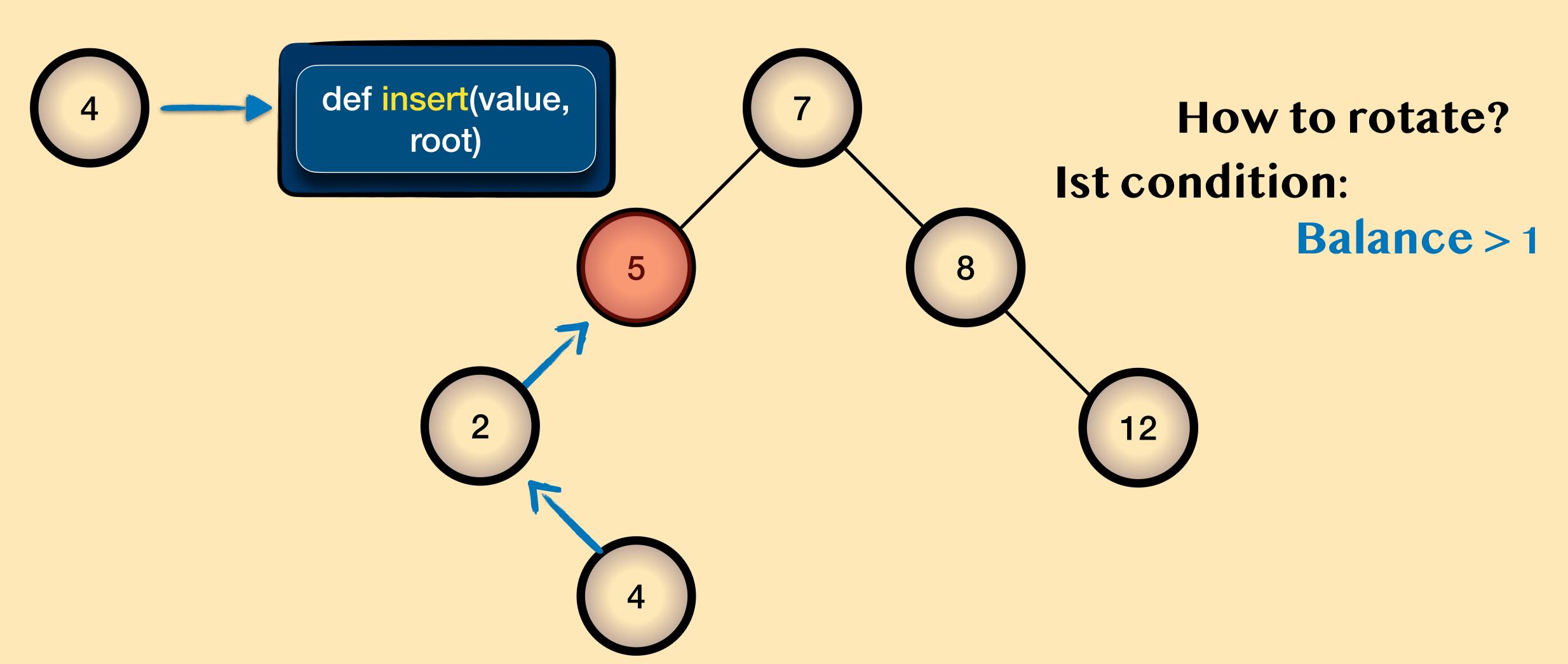


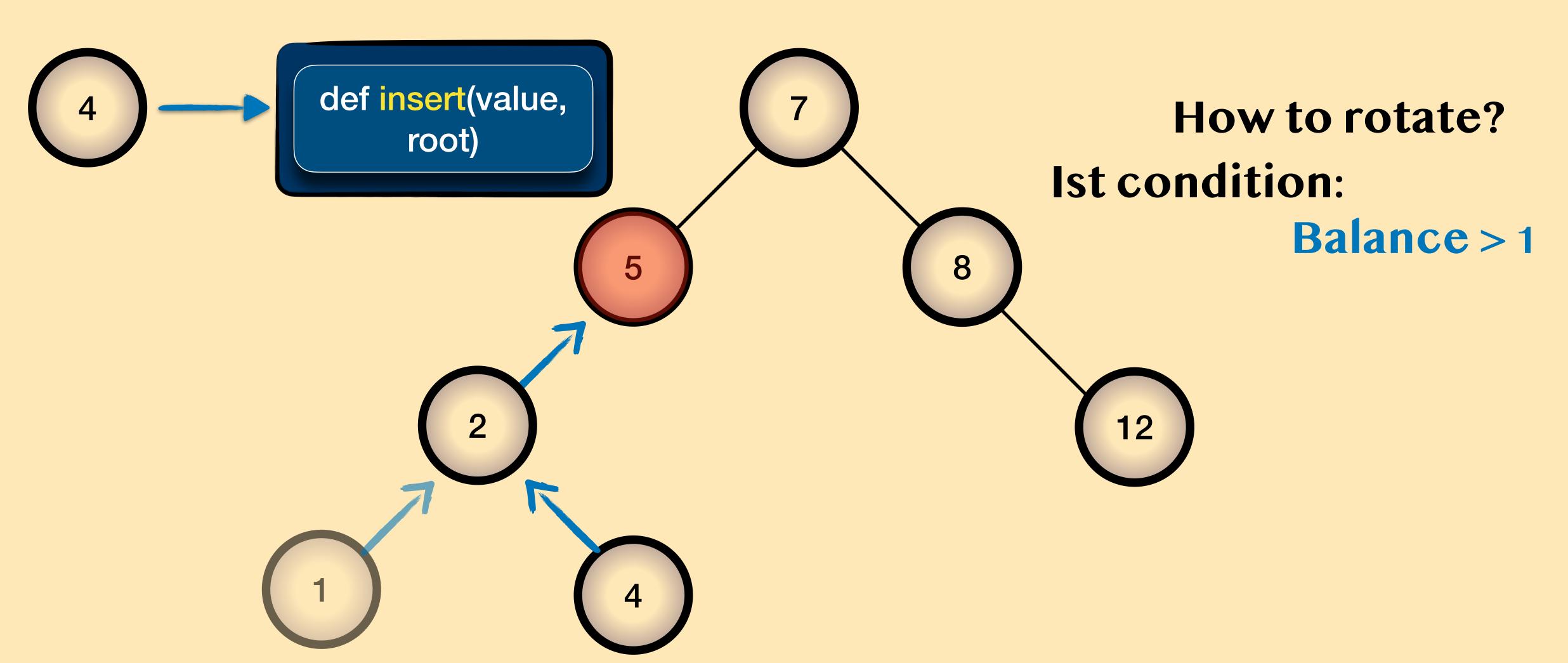


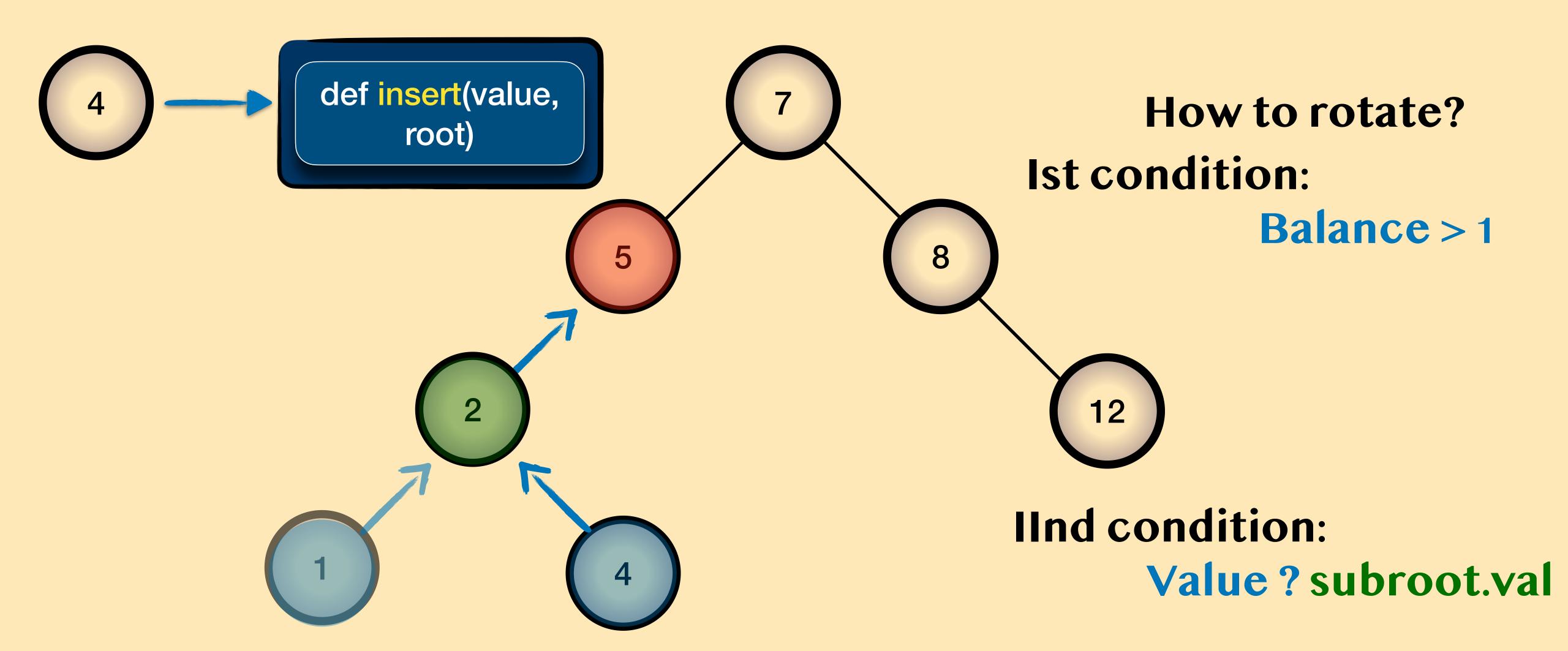






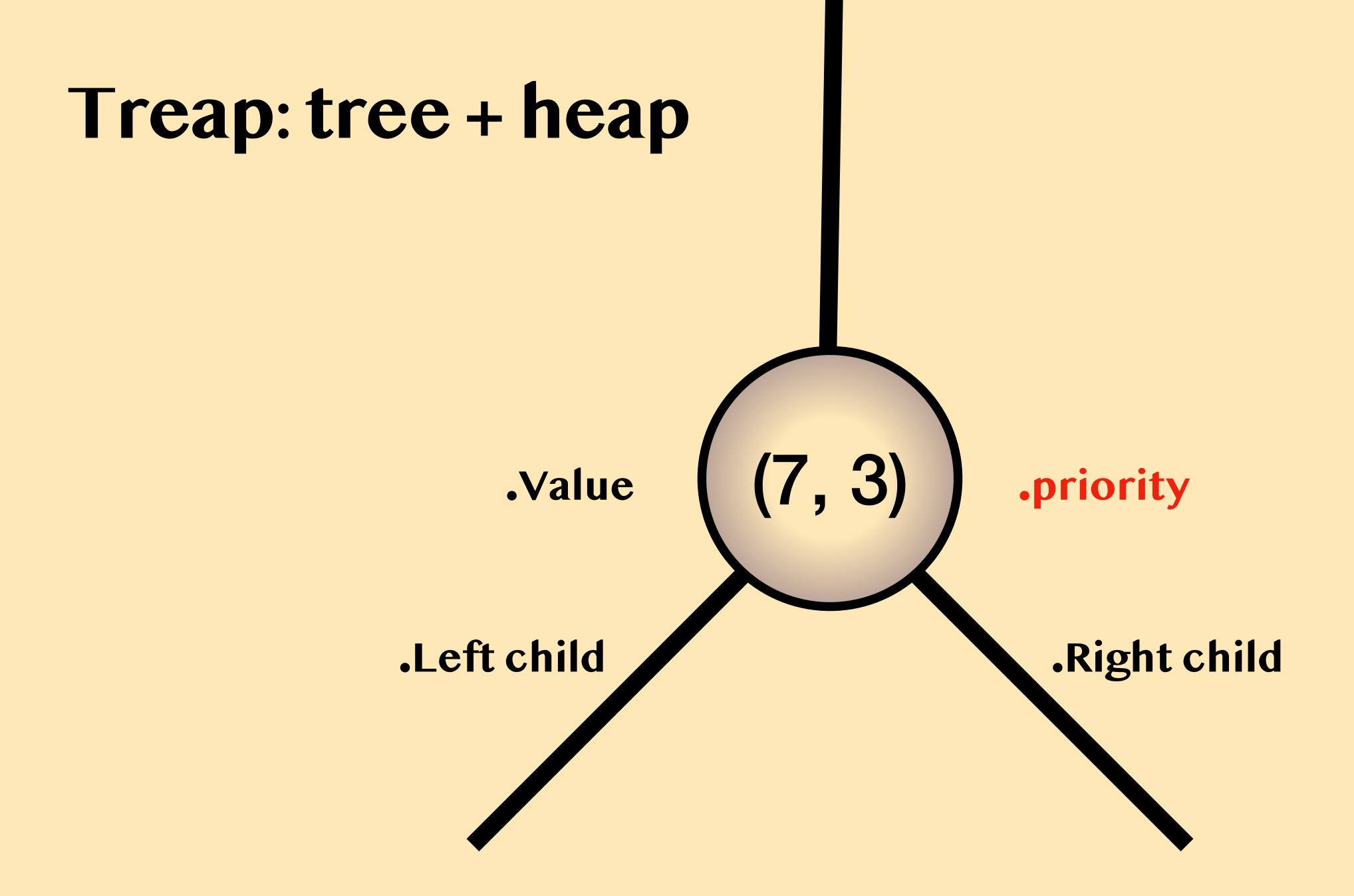






		Balance > 1	Balance < -1	
left subs	ubtree			
right subsu	ıbtree			

		Balance > 1	Balance < -1	
left subsu	ıbtree	1. Rotate right	<ul><li>1. Rotate right</li><li>2. Rotate left</li></ul>	
right subsu	btree	<ul><li>1. Rotate left</li><li>2. Rotate right</li></ul>	1. Rotate left	



Left\_child.value <
Root.value <
Right\_child.value

Root.priority > Child.prioriy

