

(concrete examples)

Scenario

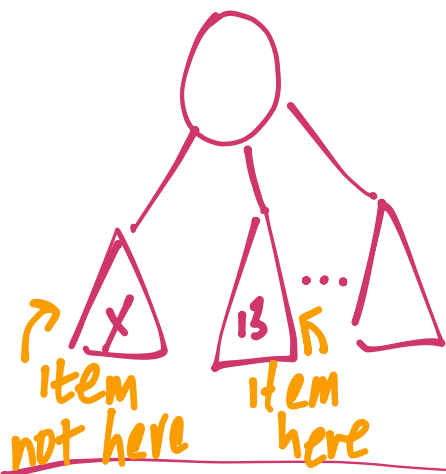
Recursive Calls

Code

empty tree

return False

delete item 13  
in multi-node  
tree (NOT AT ROOT)



delete-item(~~X~~, 13)



→ no mutation  
return False

delete-item(13, 13)



→ item removed  
return True

STOP recursing when  
one call returns True

iterate through  
subtrees

Stop if one call  
returns True

↳ we also return True

if none do

↳ return False

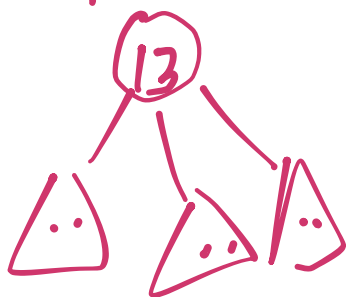
delete at root

① single node

(13)

... so, subtrees = []

② multiple nodes



if self.\_root == item  
self.\_root = None  
return True  
else:  
return False

def \_root  
helper  
(see worksheet)

delete 5

