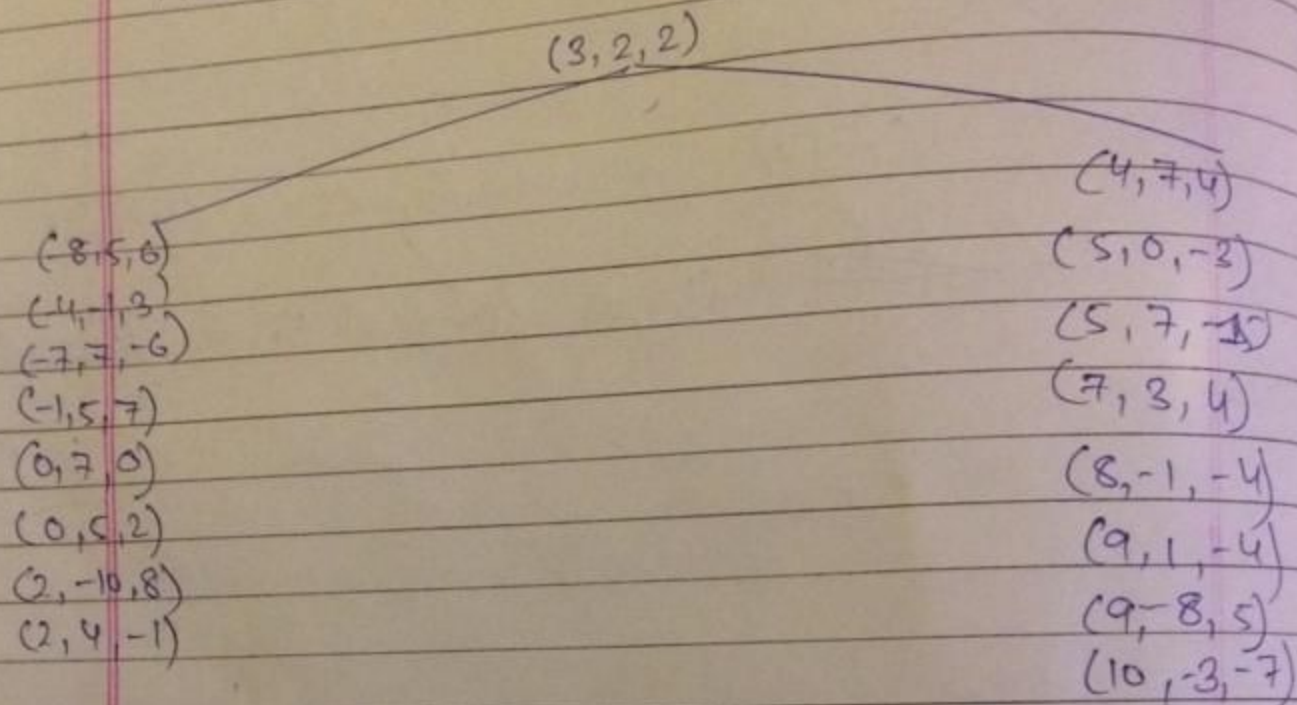
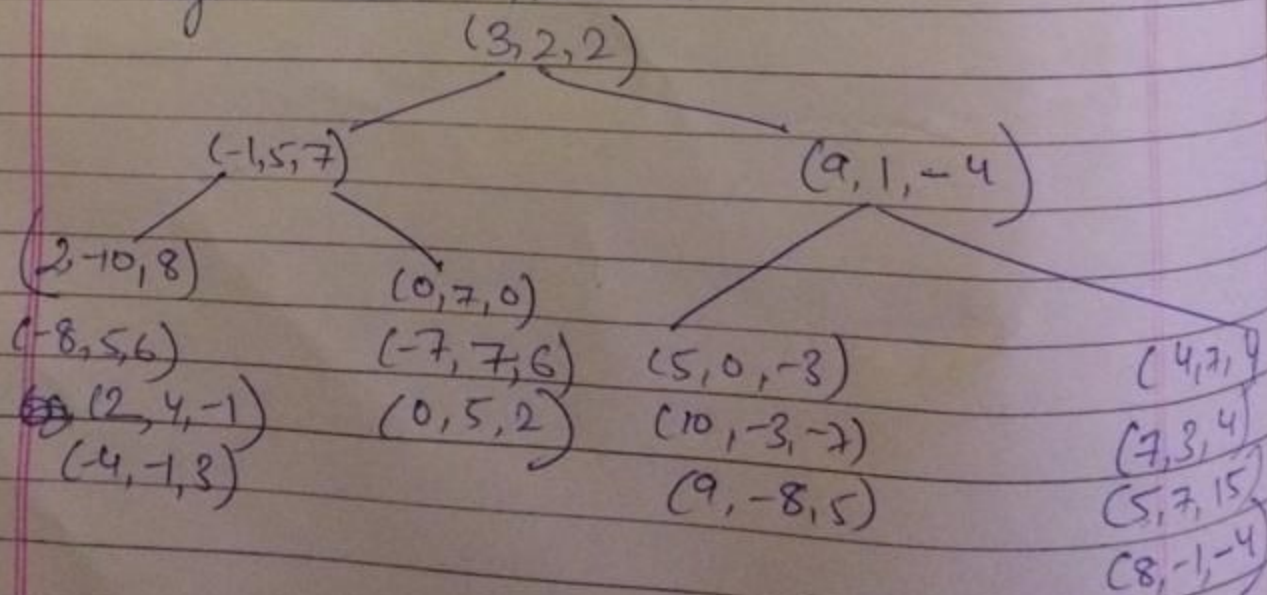


At depth 0,  
 Sort points with x coordinate, then  
 Median = (3, 2, 2)

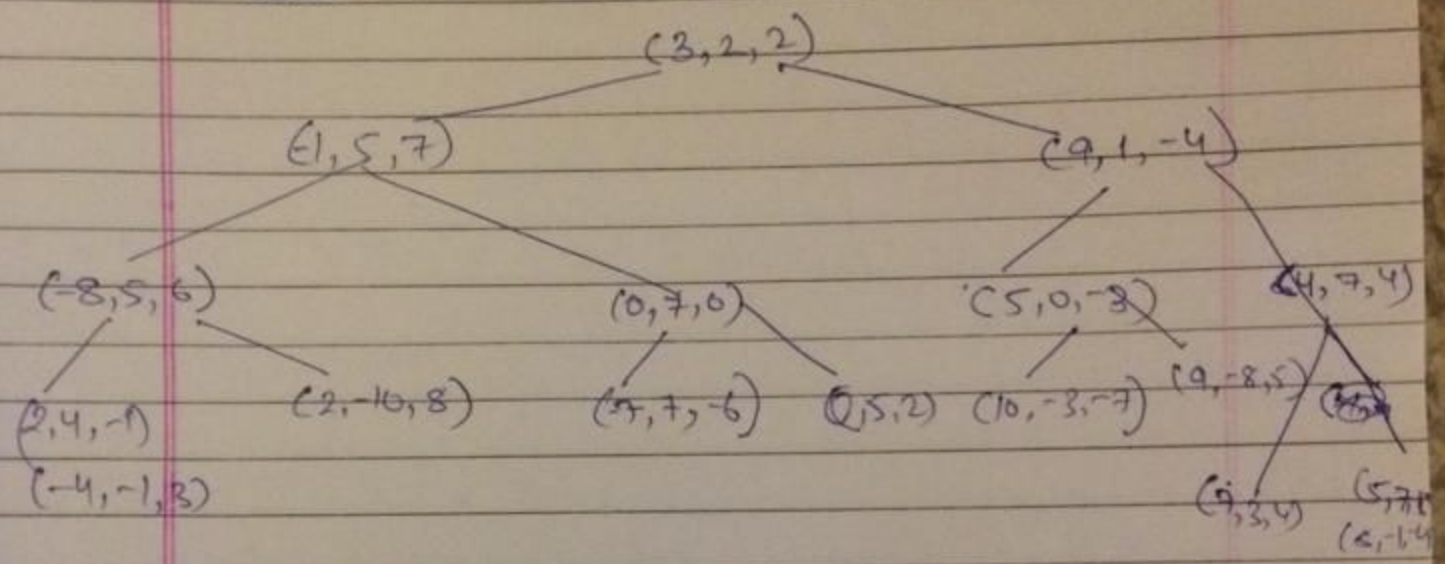


At depth 1.

Sort points with y coordinate, then  
 again take median.



At depth 2  
sort points with z coordinate, then  
take median.



At depth 3 sort with x coordinate, then take  
median

