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Mohammed Abu-Hadhoud

MSA, PMOC, PMP®, PMP®, PMP-ACP®, CS, ITIL®, MCPD, MCSD



لا تنسى الاشتراك في قناتنا على اليوتيوب ومشاركة القناة مع اصدقائك  
لتعم الفائدة للجميع وانقاذ الاف الناس من التشتت جزاكم الله خيرا

لا تنسونا من دعائكم وادعو لوالدي بالرحمة

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## مهم جداً

هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20٪ مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

يجب عليك مشاهدة فيديو الدرس كاملا

لاتنسى عمل لايك ومشاركة القناة لدعم الفائدة للجميع  
لا تنسونا من دعائكم

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## Data Structures Level 2

# Types of Binary Tree

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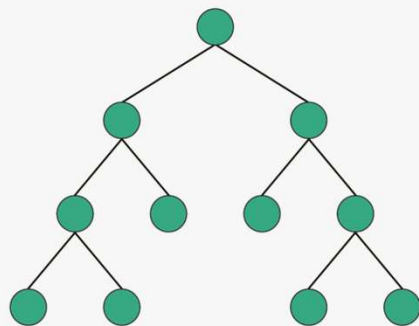


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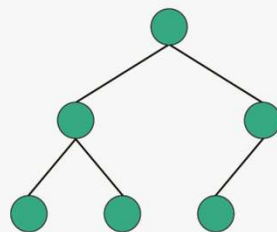


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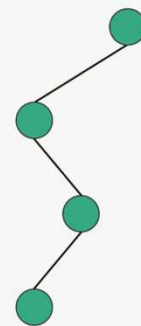
# Type of Binary Tree?



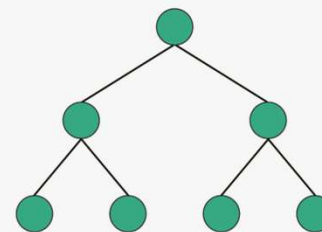
Full



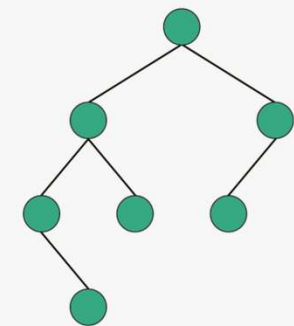
Complete



Degenerate



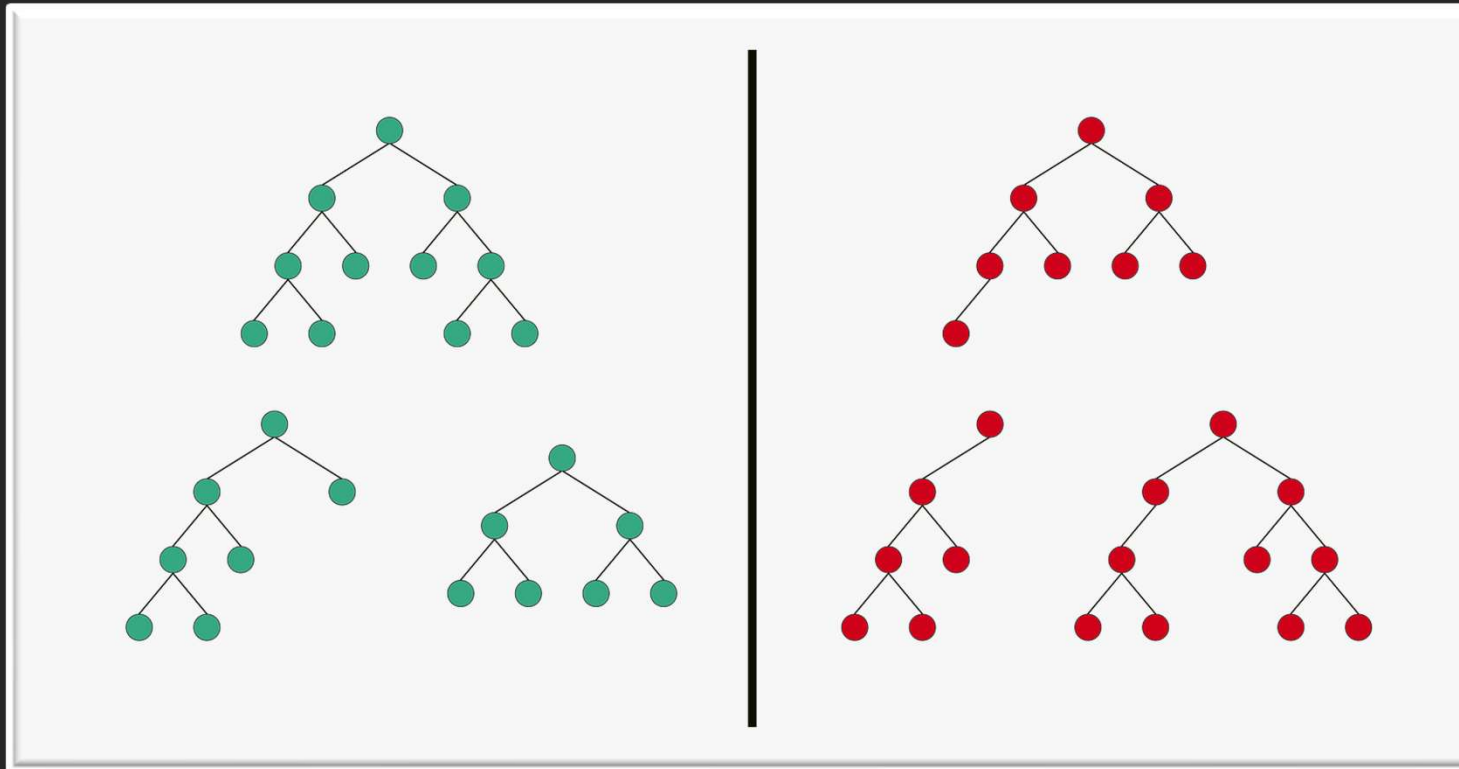
Perfect



Balanced

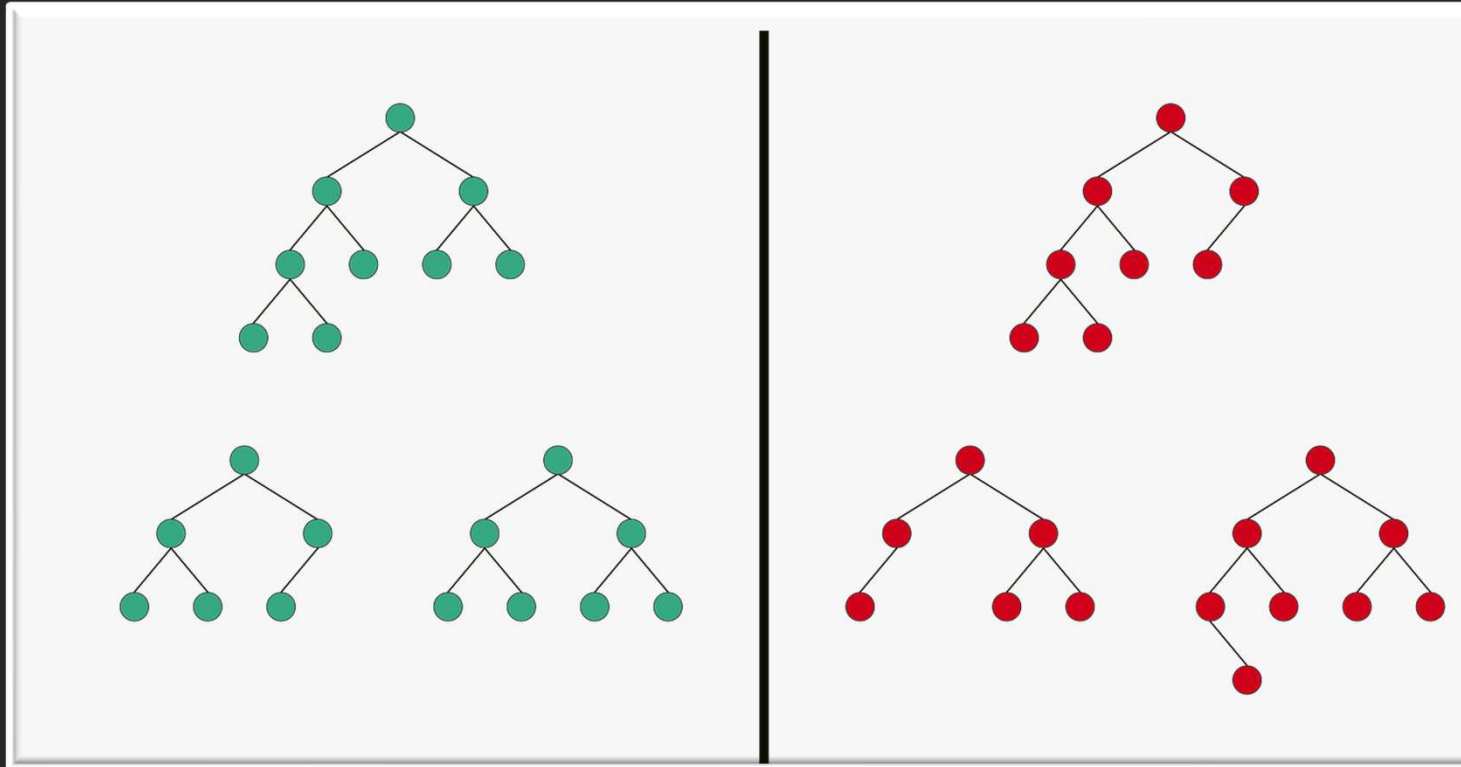
# Full Binary Tree

Full Binary Tree is a Binary Tree in which every node has 0 or 2 children.



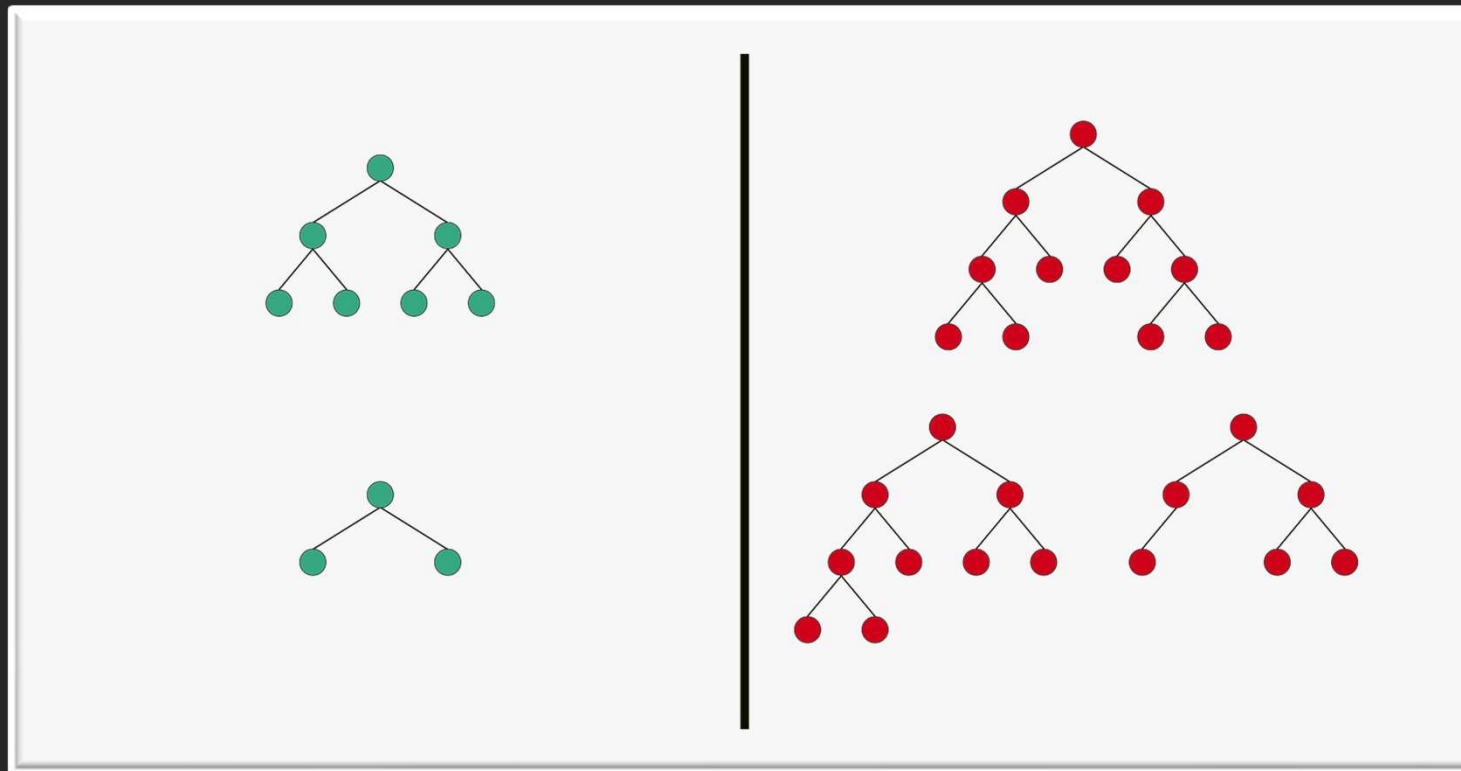
# Complete Binary Tree

Complete Binary Tree has all levels completely filled with nodes except the last level and in the last level all the nodes are as left side as possible.



# Perfect Binary Tree

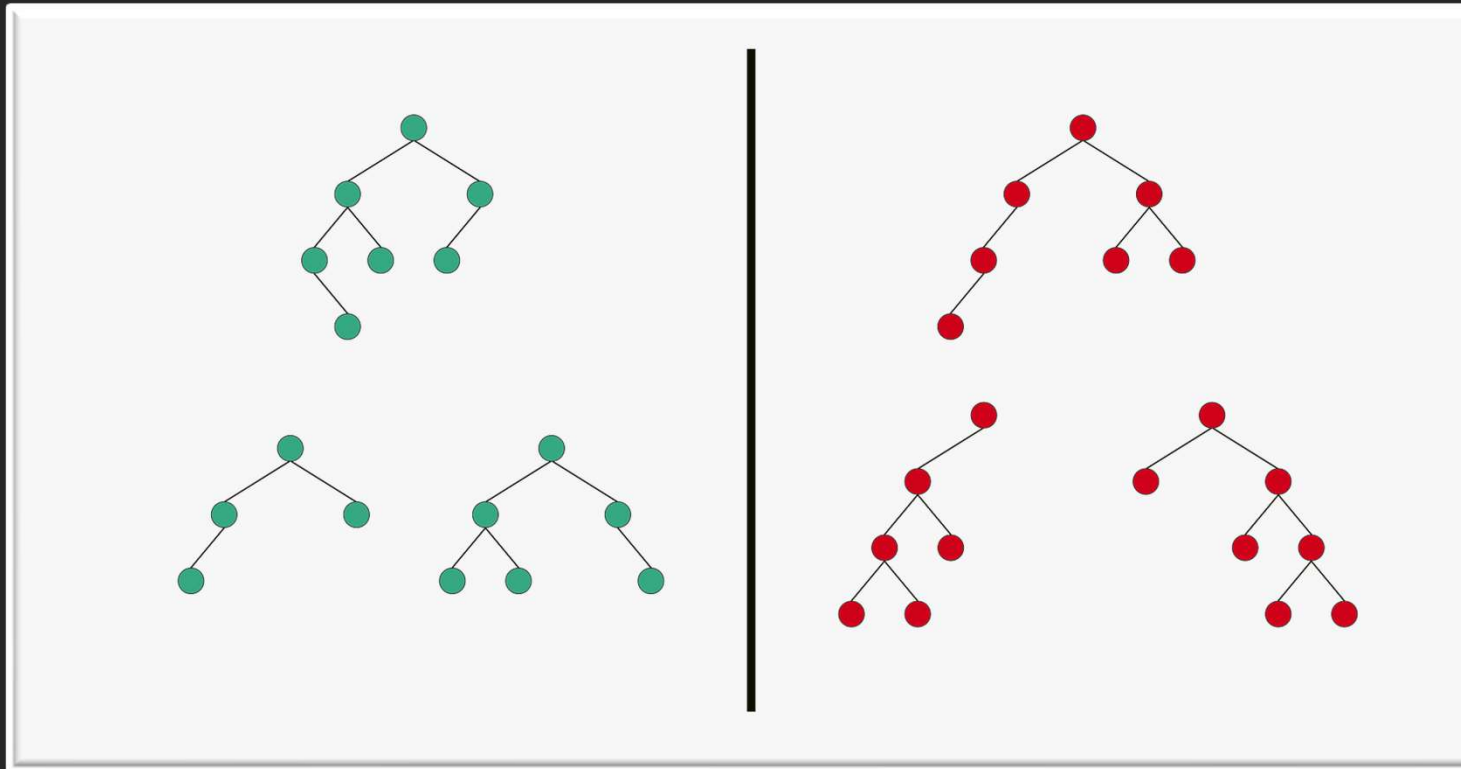
Perfect Binary Tree is a Binary Tree in which all internal nodes have 2 children and all the leaf nodes are at the same depth or same level.





# Balanced Binary Tree

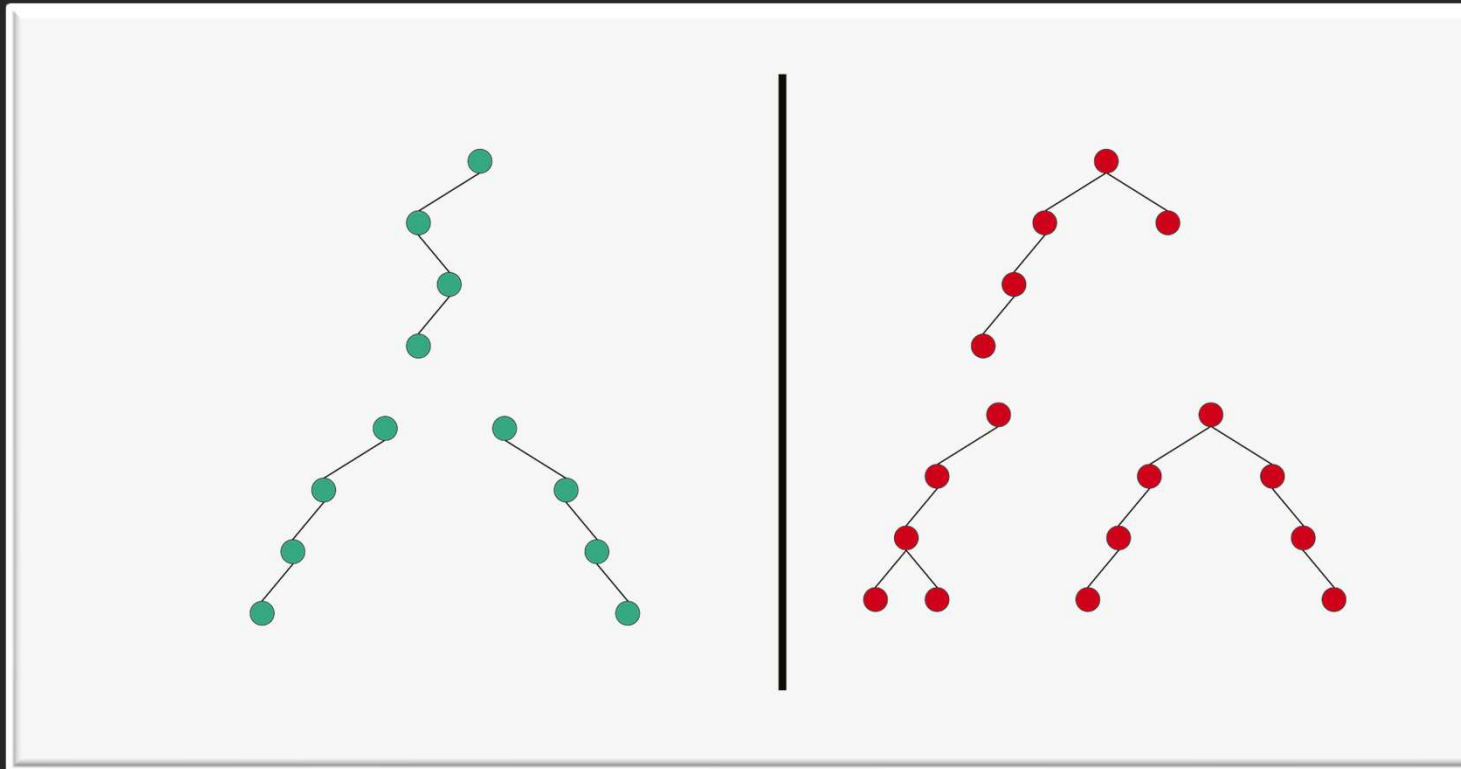
Balanced Binary Tree is a Binary tree in which height of the left and the right sub-trees of every node may differ by at most 1.





# Degenerate(or Pathological) Binary Tree

Degenerate Binary Tree is a Binary Tree where every parent node has only one child node.





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Thank You

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