→PNS

>Hierarchical

Storage

OTD

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complete Tries bell

bela base bee

ball bang

blea

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bela ?

Thee

Tree VIS

Binary tree

x

Binary

cit

most

z

Child

nodes

Dept

h ○ Branch

2

Chic

Pleft $(B$

a

Aft sub tree

root $($one and only

sight

Child

One)

C right

Height

Free

Leaf

D/H: length of longest running

branch

Complete Binary Tree

all leaf nodes are at some depth

Recurly Complete

all other than one is *at* $+1$ or-

clept

h

&

Strict B.T

   either o child or 2

Bind

y

`Binary` Search Tree → `Child`

Parent: left →→

Child Parent: right

38,8,15,30,45

8

28

S

30

US

BST $\longrightarrow$

Depth

50, 10, 1, 30, 100, 50,
68,28,200, 105

BST **->**

Depth

50, 10, 1, 30, 100, 50,
68,28,200, 105

28

30

50

100

o

68 (105)

3

10 5 **2** 15 **8** 25

s

8

10

25

258101525

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30

HO

So

35

S

LO

100

10 20 30 40

Multiway

Search Tree

Sorted order

B Tree - insertion clone only

in leaf → has order/dgree →

M → M must be odd only

ЭT

M> m-1 max elements **3** m/2

min elements

m to split

insertion is order & in

BST for

B-> M=3 mux=2 min = split=3

10, 5, 8, **1,**

8, 12, 22 27X828

8

5

12

2

3

Sequential
access

ん

S

6

B+ > Enhanced Btree for seguential

access → **data** stored only in

leaf nodes

Leaf

nodes `are`

bidirectional

→ Leaf

Connected

M=3

23

Season

| EP=4

2'

234

3'

2'

4

2' 3'

2345

27-345