Database Management Systems

Course Code: CSE 3521

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Section: A

Date:

1.

a/ A secondary index can be either dense or sparse at the same time it actually depending on hard disk design.

→ secondary index an Index whose search key specifies an order different from the sequential order.

and Sparse Index record appears for every search key value in the file.

So, for secondary index it is essential to have dense Index as the data entries are not in sequential order for the secondary Index. Main point of keeping a sparse index is that we should be able to find out the other search keys with the help of it.

b

Point Query: a query that return only one data

Range Query: return more the one value.

For which Indexing g will use that depent on website catagory. Let's assus our website in an online shop:
So we use Range Query.
If customer seach sorting then the Query return range of item so that customer can chose any. That aftum cuntmer will be happy. and the company will be happy.
So, if the website is an online shop the g use Range Query.

2.

4 child meran!

Pointer = 4

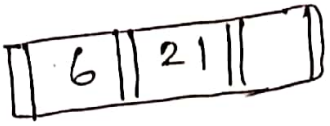
key = 3

Given Sequence,

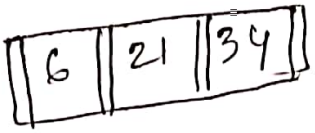
21, 6, 34, 19, 91, 43, 27, 14, 5, 87, 49

Innert, = 21.

Innert, = 6

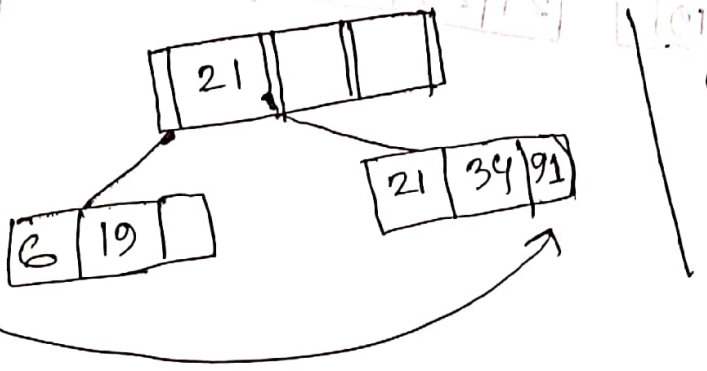


Innert = 34



Innert = 19

6, 19, 21, 34

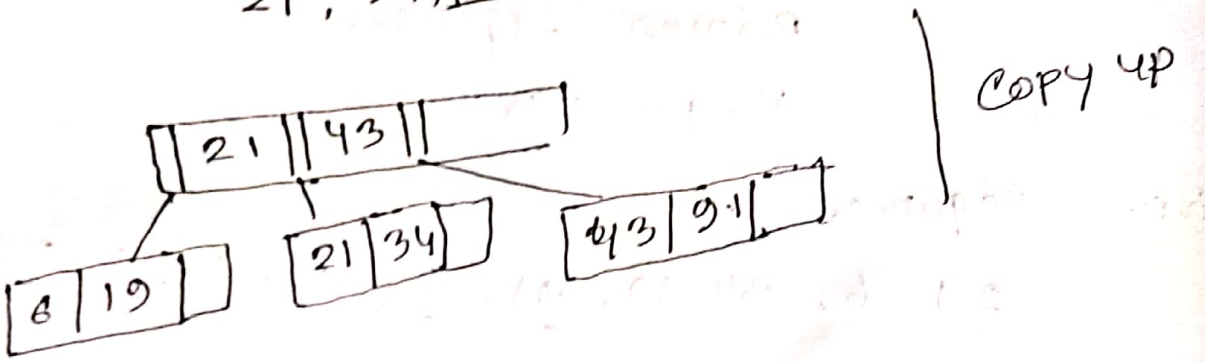


Innert = 91

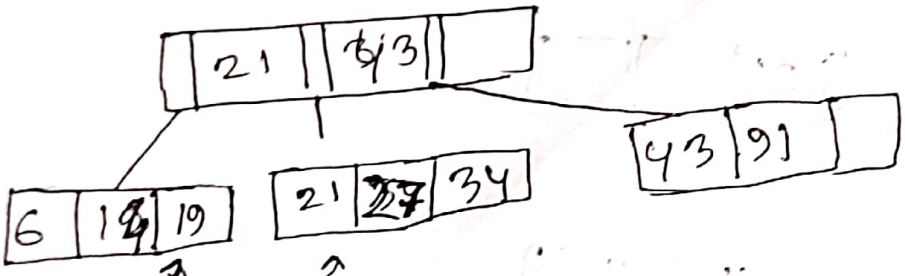
COPY UP

Insert = 43

21, 34, [43] 91



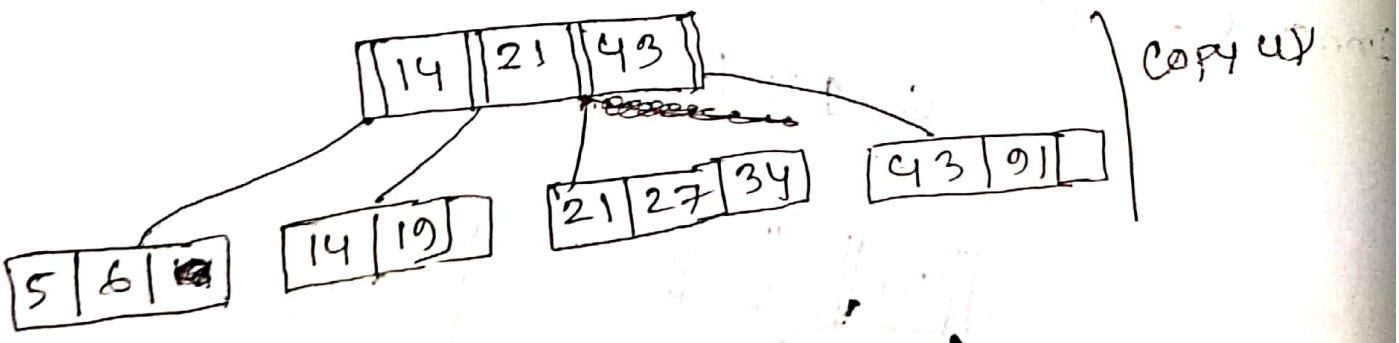
Insert = 27, 14



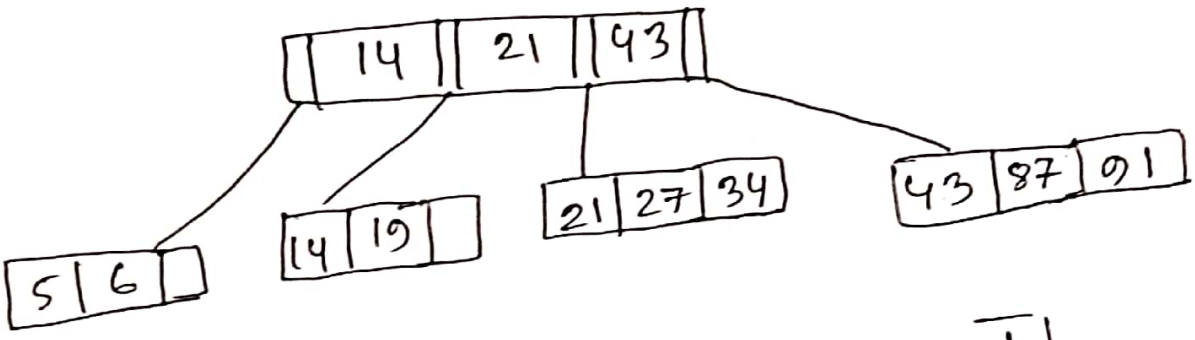
→ sorted

Insert = 5

5, 6, [14], 19



Insert, = 87



Insert = 49 → 43 49 87 91 | For copy up

14, 21, 43, 87] For push up

B+ tree