









TLE STRUCTURE

Ly Now that individual nodes structure is decided. I need to layout how these nodes will arrange thomself in the like Currently I'm thinking having just all the pages one after another. Low I have the node pages (all of them with Their respective data pages) Puzzled about how to get:

Next to be node page? -> How will I know where a page is there in the file? How will I know which page is the root node of the B-Tree? -> How will I create new nodes (pages)? - How will ? delete nodes (pages)? -> How will I deal with fragmentation in the file (due to deletion)? How file might end up looking like:

File Some Free Some Free Some Free Space Pageo Space Space L) Now the above questions become very important to answer ... What if I save the nodes (and their data pages) in the level-order of B-Bree?

This might make it a bit easier to leveile the page we need. But how will I deel with insertion of nodes and deletion? > If I stone the level-order in reverse order (i.e. leafs to root) then insertion will be easier since in B- Ince a new node is always added at the root level Splits also cause new mode creation at the internal modes I don't think level order will work because creating new nodes at internal nodes level can potentially out for shifting all pages. Massively reducing the











