CSE: 224 DATASTRUCTURE & ALGORITHMS

lab 5 report

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# Problem Statement:

1-You are required to implement a generic B-Tree where each node stores key-value pairs and maintains the properties of the B-Trees use the provided interfaces.

2- You will be given a set of Wikipedia documents in the XML format, and you are required to parse them and maintain an index of these documents content using the B-Tree to be able to search them efficiently use the provided interfaces.

# Implementation details & design choices

1. using 3 lists to store keys, values and children’s in every node.
2. to enter any key or value to node it should be wrapped in a list
3. key enter first then value or childe second in the node.
4. the operations (insertion & deletion) happens first and if there is error fixup take place second.
5. search return null if the object is not in the tree.