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Data Structure Problems using Java Generics

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Section 3: Hash Tables

The picture can’t be displayed.

HashTable API

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UC 1

Ability to find frequency of words in a sentence like “To be or not to be”

- Use LinkedList to do the Hash Table Operation
- To do this we create MyMapNode with Key Value Pair and create LinkedList of MyMapNode

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UC 2

Ability to find frequency of words in a large paragraph phrase “Paranoids are not paranoid because they are paranoid but because they keep putting themselves deliberately into paranoid avoidable situations”

- Use hashcode to find index of the words in the para
- Create LinkedList for each index and store the words and its frequency
- Use LinkedList to do the Hash Table Operation
- To do this create MyMapNode with Key Value Pair and create LinkedList of MyMapNode

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UC 3

Remove avoidable word from the phrase “Paranoids are not paranoid because they are paranoid but because they keep putting themselves deliberately into paranoid avoidable situations”

- Use LinkedList to do the Hash Table Operation like here the removal of word avoidable
- To do this create MyMapNode with Key Value Pair and create LinkedList of MyMapNode

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Section 4: Binary Search Tree (BST)

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UC 1

Ability to create a BST by adding 56 and then adding 30 & 70

- Use INode to create My Binary Node
- Note the key has to extend comparable to compare and determine left or right node
- First add 56 as root node so 30 will be added to left and 70 to right

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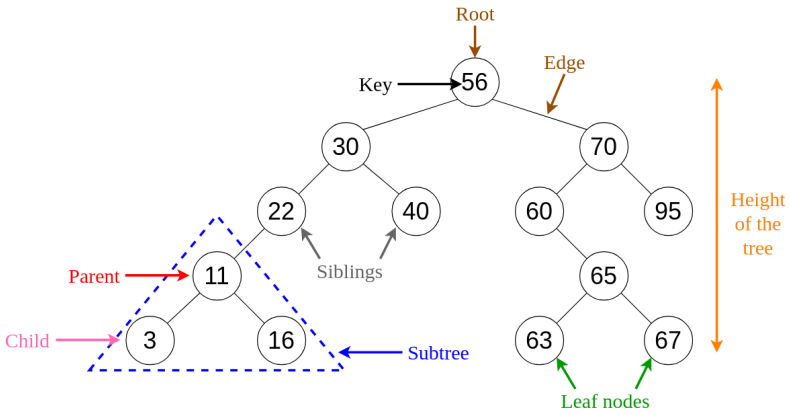
UC 2

Ability to create the binary tree shown in the figure

- Check if all are added with using size method in Binary Tree



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UC 3

Ability to search 63 in the Binary Tree

- Implement Search method and recursively search left or right nodes to find 63

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Thank You