

CSE 222
Homework 3
Problem solution approach

In this homework we should complete a customised heap and BinarySearchTree Heap Tree. For customised heap I used a priority queue in it and standart operations was made by delegetion (like add remove). For search I traversed with iterator one by one. For merge I used addAll operation. To remove i'th largest element I just removed i elements one by one and I added all elements without the last element removed. For set operation of iterator I removed the item and I came to the same index because after deletion its not allowed to continue.

For 2nd part (BST HeapTree) I made3 class one is named LittleNode that hold the data and the occurences of the data. In the outer one class which is named BigNode is holds a LittleNode heap that I made in part 1 and also it holds the sizeLimit. If its full then we can not add element to it. BigNode also holds recursively 2 times itself named right and left in a binary tree form.The last class I made is BSTHeapTree which holds the root BigNode. This class is a binary tree actually. Operations of this class almost all are recursive.

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