

ICS202 QUIZ #3(Term 062)

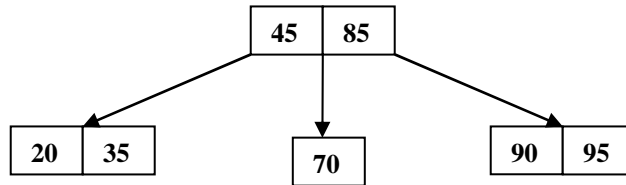
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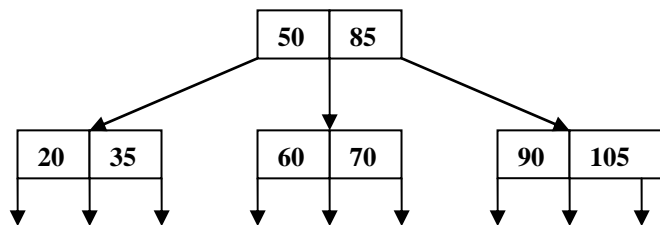
Q1. Draw the final MinHeap tree in converting the following array into a MinHeap by the Top Down approach (4 points)

12	7	3	20	28	31	45	8	50	4
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Q2. Draw the intermediate and final B-tree of order $m = 3$ when the keys 70, and 85 are deleted from the B-Tree given below. Your output should have at least 2 trees, one after each deletion operation. (4 points)



Q3. Draw the intermediate and final B-tree of order $m = 3$ when the keys 55, 100, 40 are inserted in the B-Tree given below. Your output should have at least 3 trees, one after each insertion operation. [6 points]



Q4. Write a java method called

```
public static void LeafNodes(Comparable Heap[] )
```

That will take an input called Heap which is a MinHeap implemented as an array with index 1 being the root of this heap. This function should print all the leaf nodes of this heap. Assume that the array is full and count is same as Heap.length.