

3/23/21

Ravi
Barber

CS 372

Due: Saturday

Heap/Binary Tree Home Work

Heap home work: build a Binary tree for each of the two data sets below. Then build two heaps using the same data sets below. Show all work please.

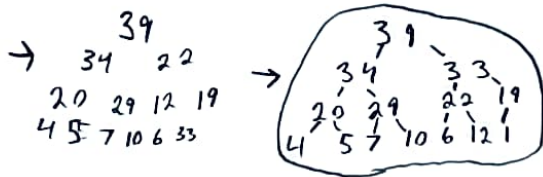
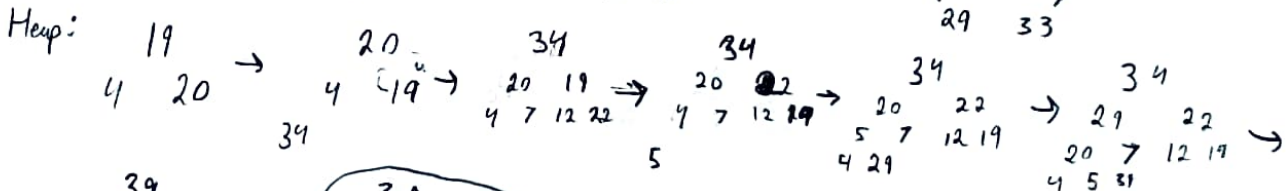
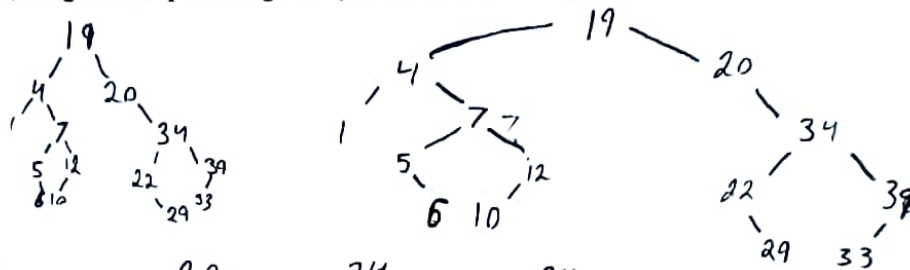
Set 1: 19 4 20 34 7 12 22 5 29 39 10 6 33 1

Set 2: 1 13 2 14 3 15 4 16 5 17 7 18 8 19

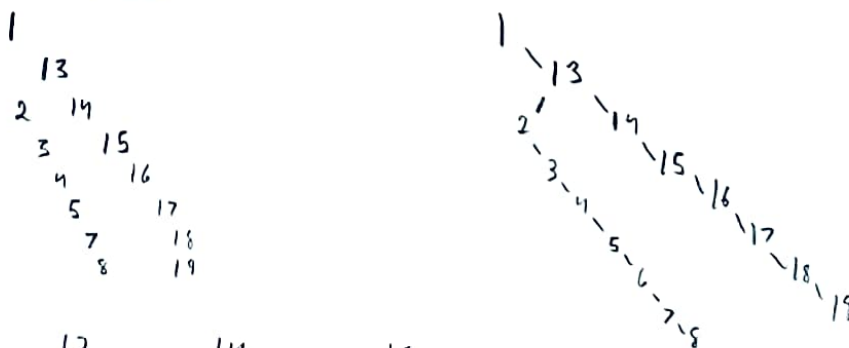
Show Heap After Deleting One number

NOW, using the 'Heap Sort' algorithm, sort the data Set 2 heap only. Show all work please.

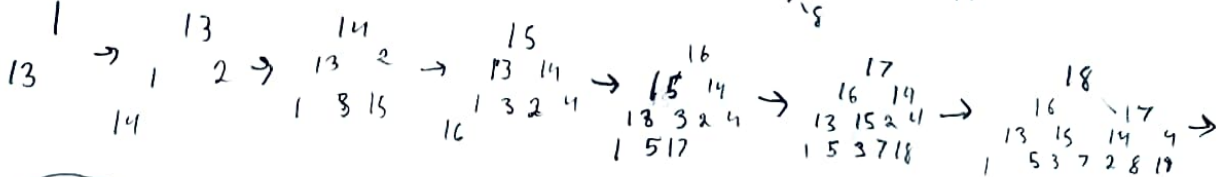
Set 1: Binary:



Set 2: Binary:



Heap: Heap:



Original:
Heap



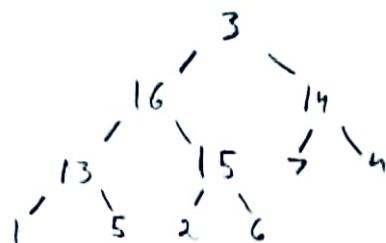
1. Delete 18



2. Delete 18



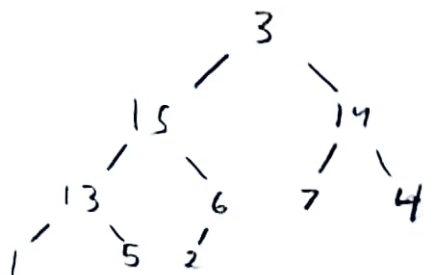
3. Delete 17



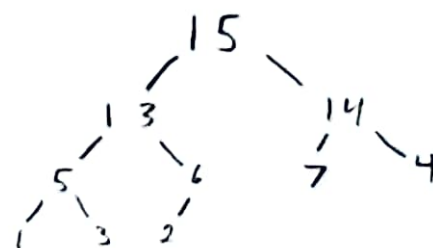
→



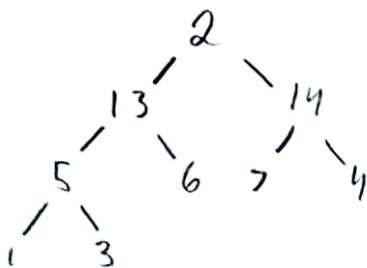
4. Delete 16



→



5. Delete 15



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