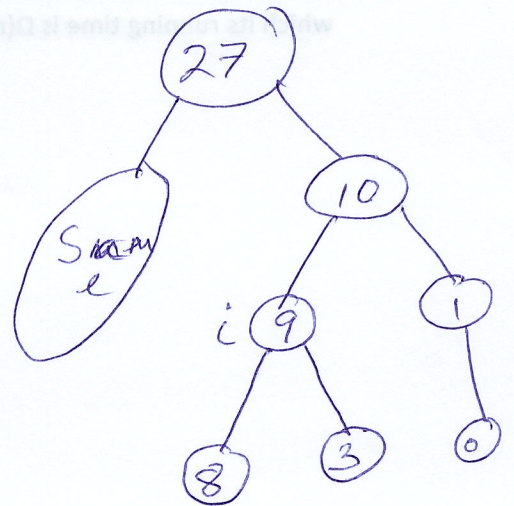
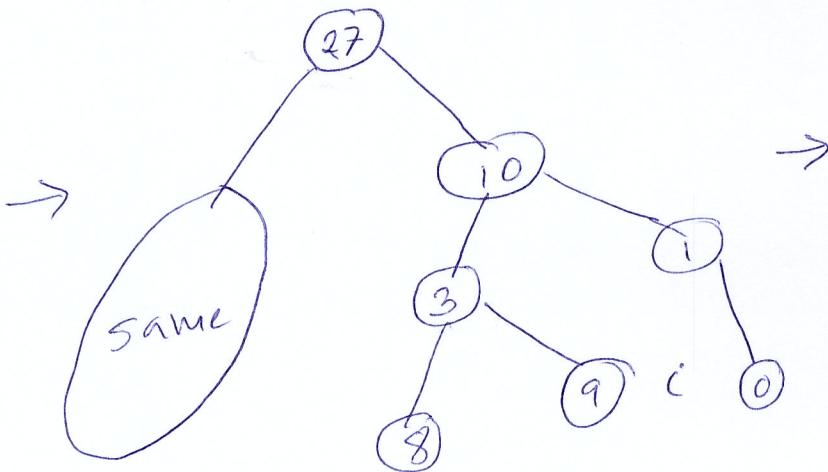
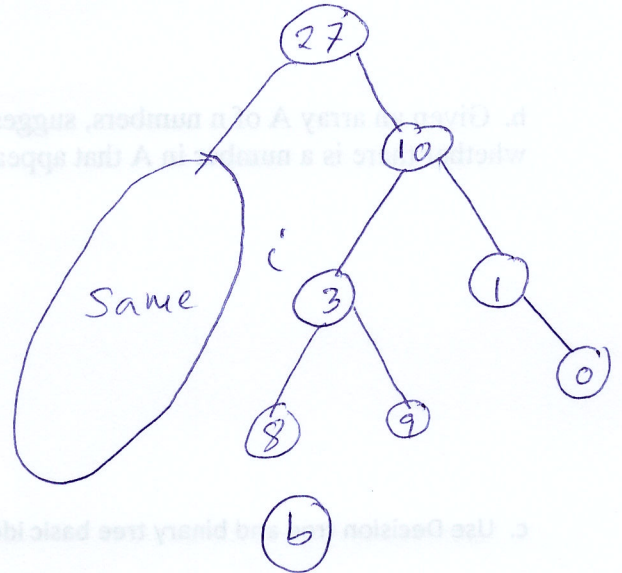
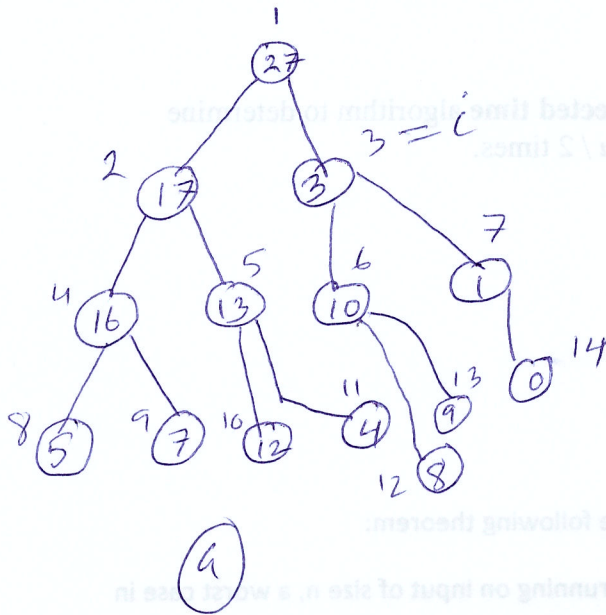


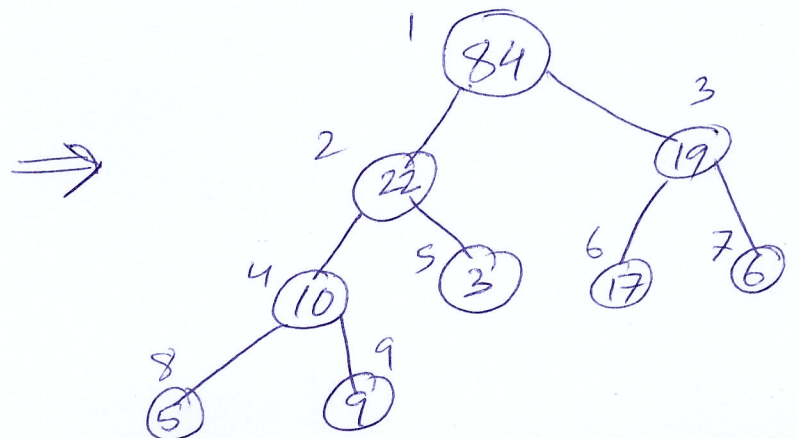
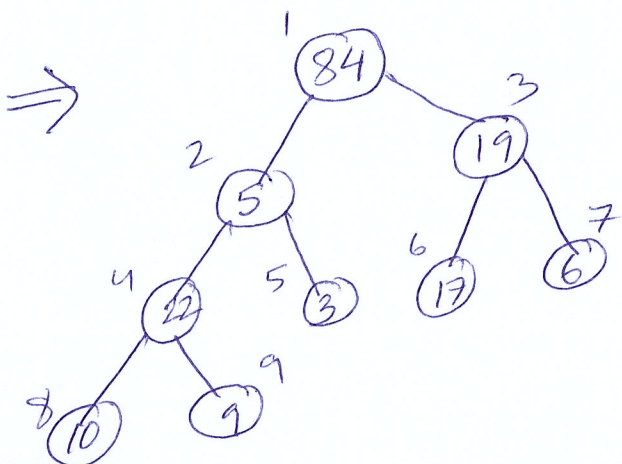
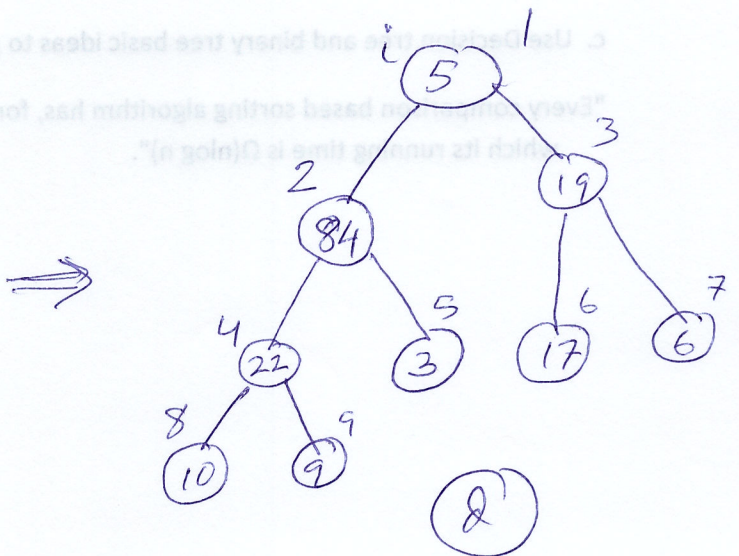
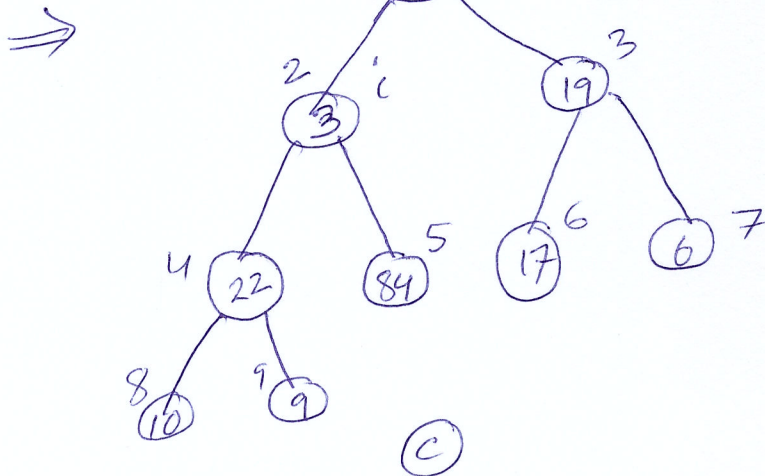
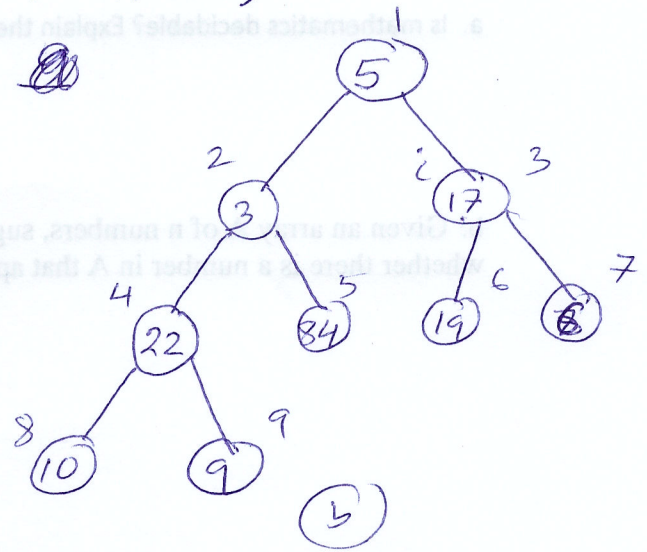
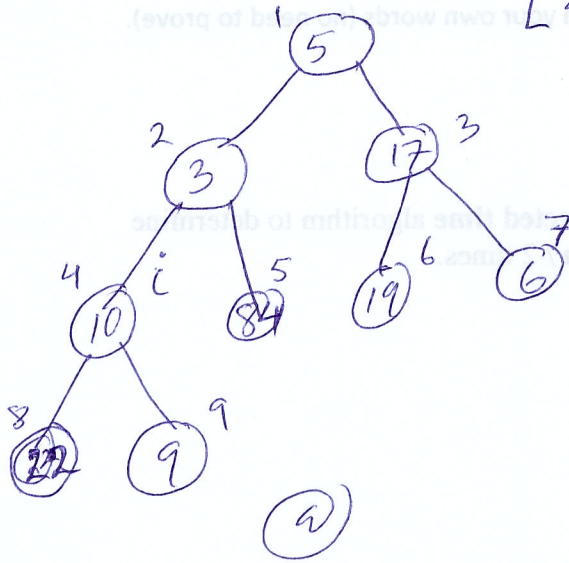
Q1. Ans

$A = [27, 17, 3, 16, 13, 10, 1, 5, 7, 12, 4, 8, 9, 0]$



Q2. $A = [5, 3, 17, 10, 84, 19, 6, 22, 9]$

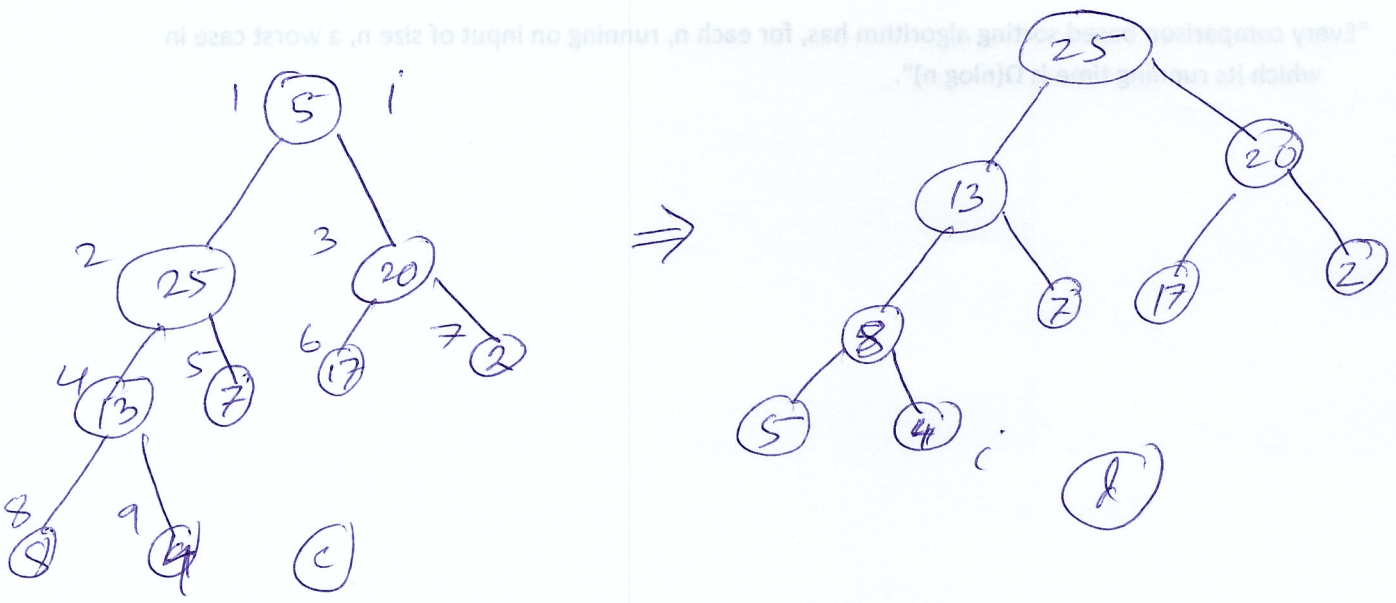
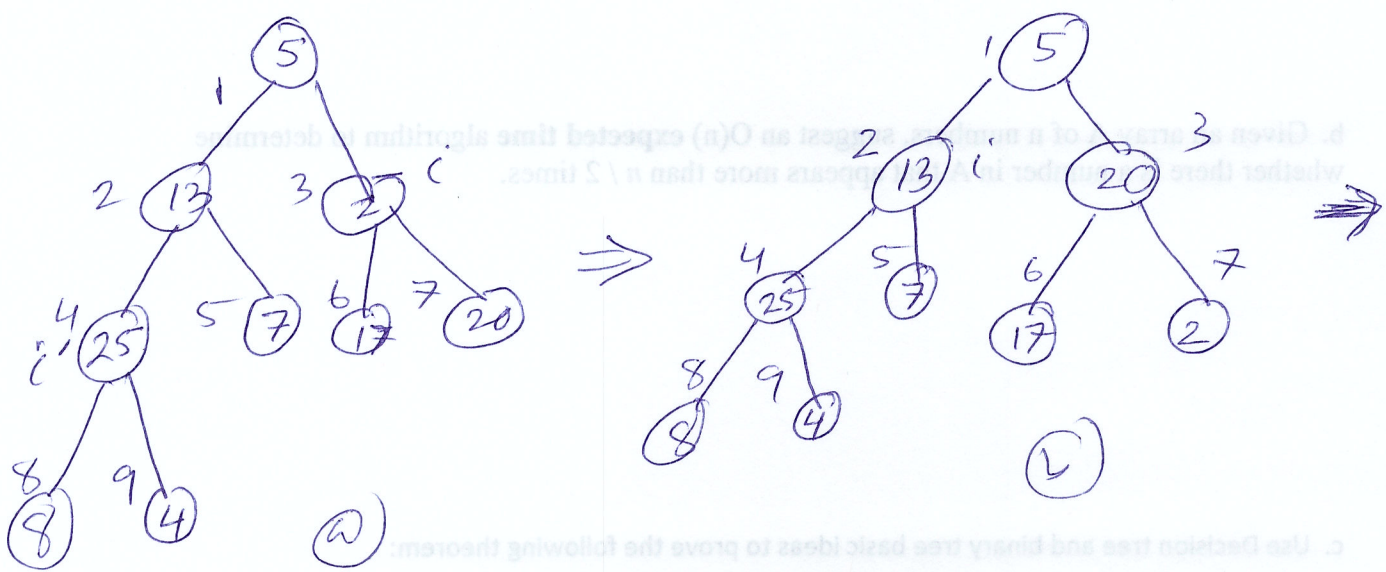
$$\left\lfloor \frac{9}{2} \right\rfloor = 4 \text{ (initial i)}$$



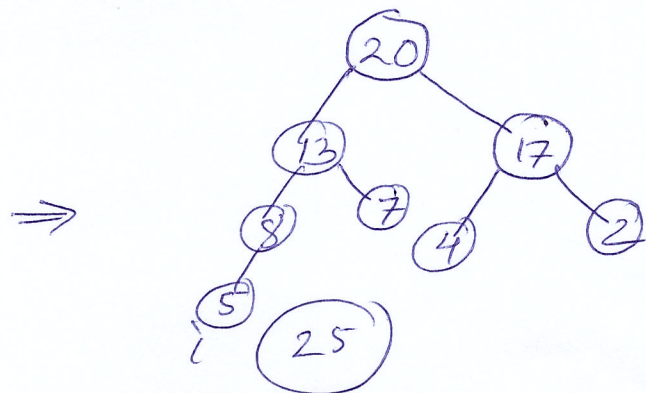
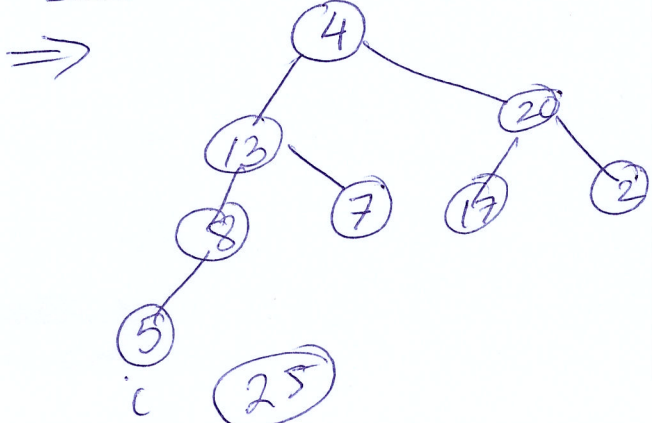
Q3

$A = [5, 13, 2, 25, 7, 17, 20, 8, 4]$

(a) Build Heap first. $\lfloor \frac{9}{2} \rfloor = 4 = i$

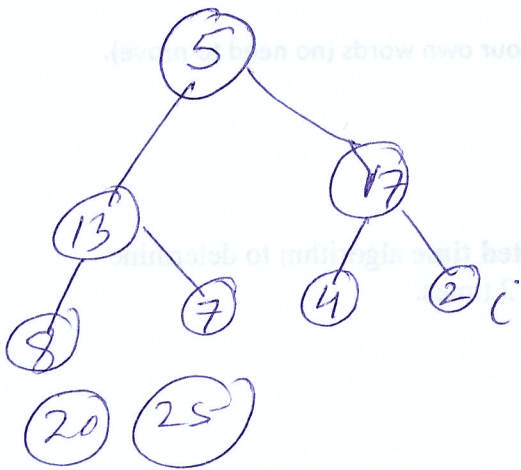


Start Heapsort

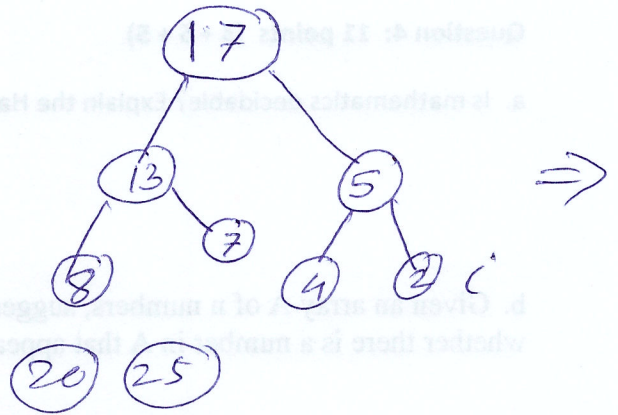


Q3.

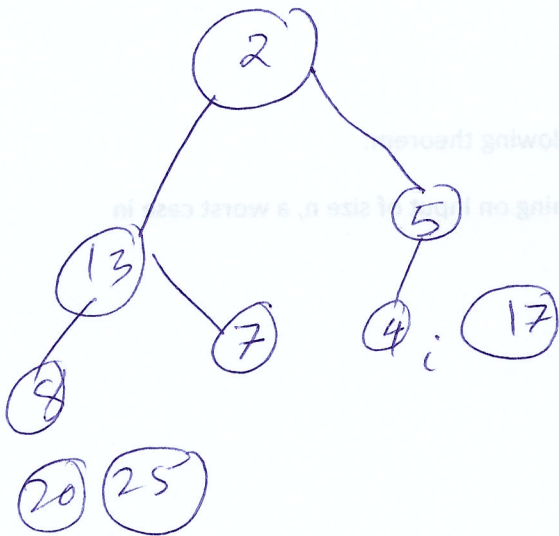
(6)



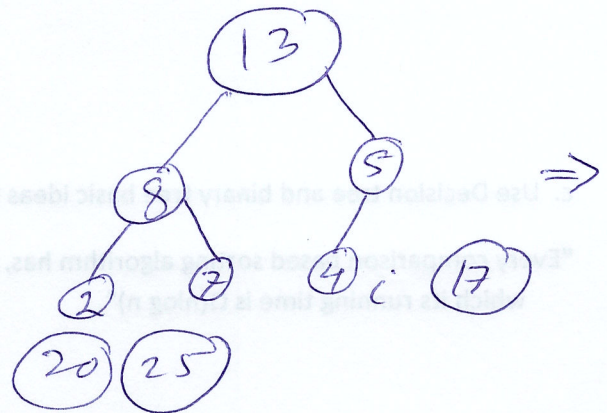
⇒



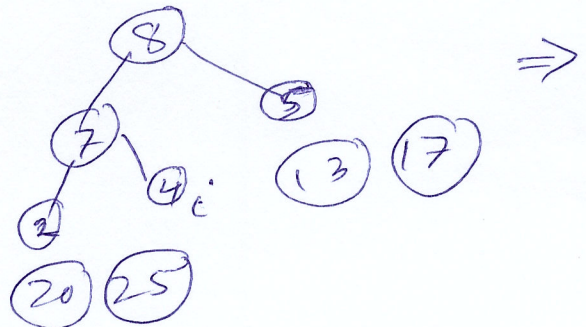
⇒



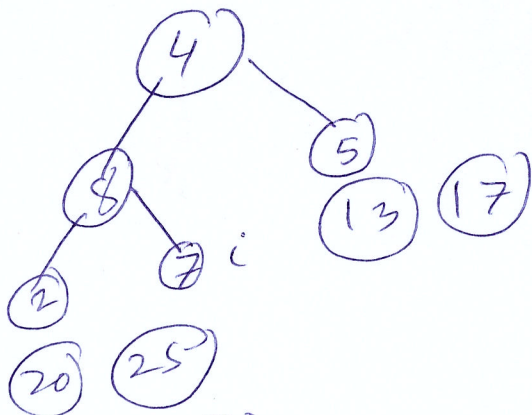
⇒



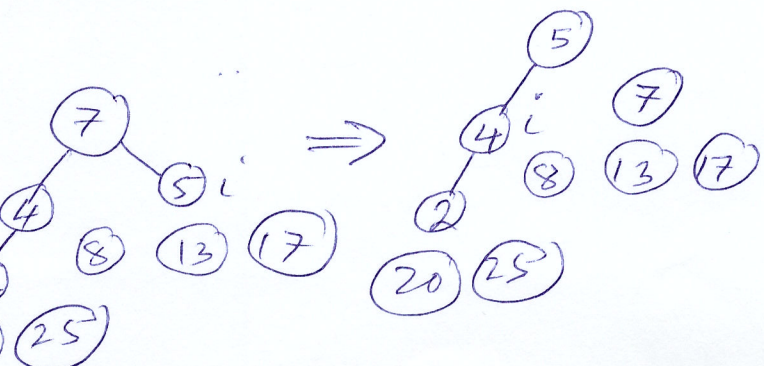
⇒



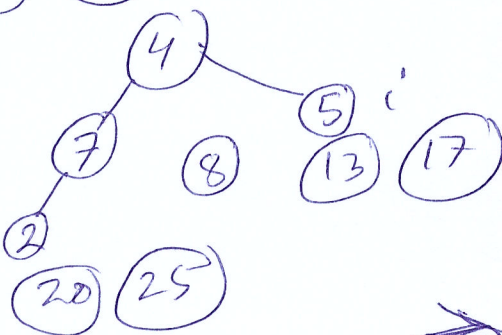
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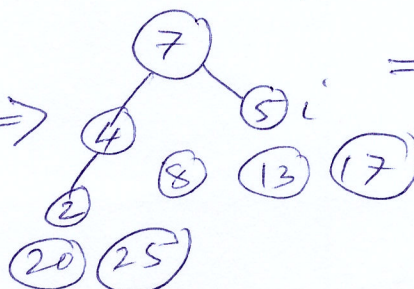
⇒



⇒



⇒



⇒

2 4 5 7 8 13 17 20 25
(Answer)