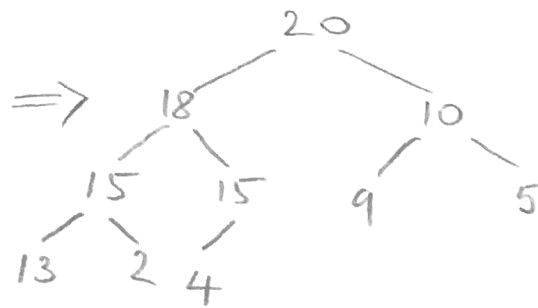
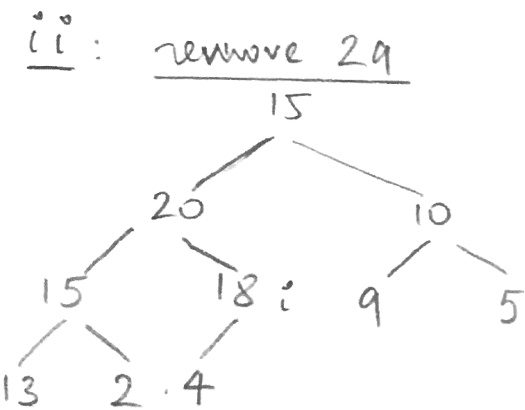
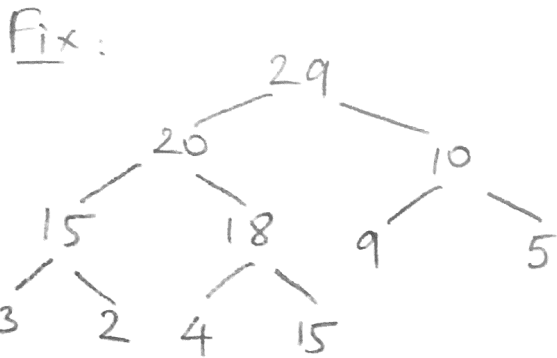
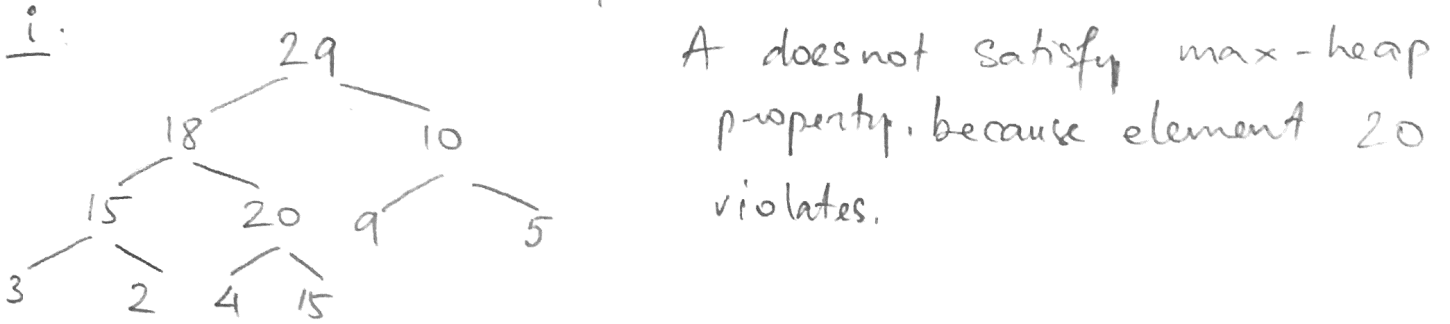


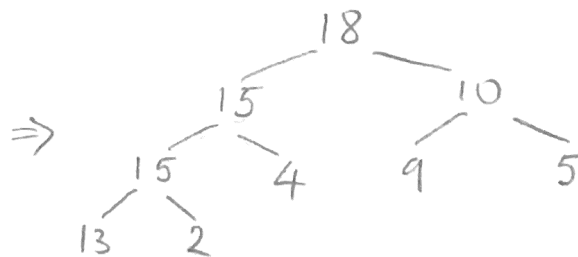
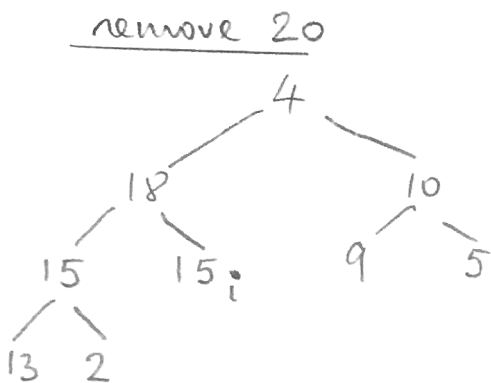
# Tree - Homework

Phong Vo

③ Max-Heap :  $A = \{29, 18, 10, 15, 20, 9, 5, 13, 2, 4, 15\}$

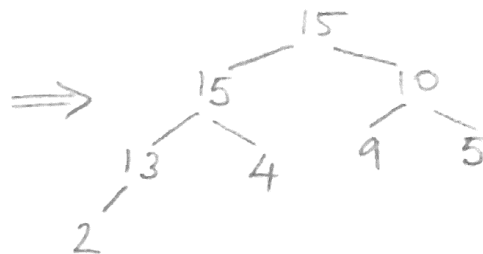
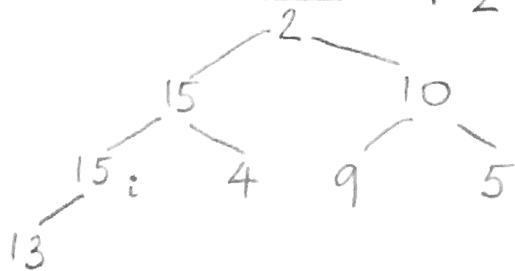


$A = \{29\}$



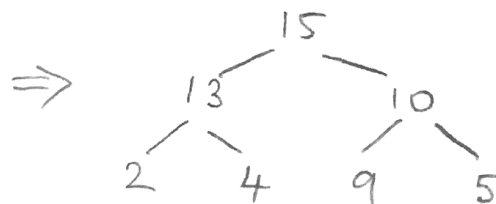
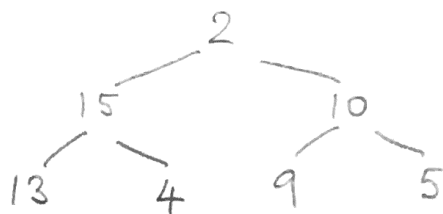
$A = \{29, 20\}$

remove 18  $i = \lceil \frac{N}{2} \rceil$



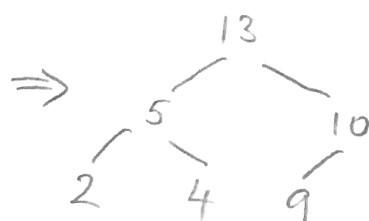
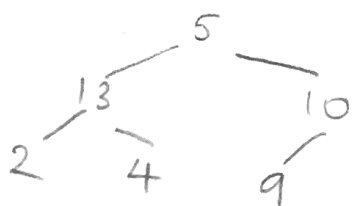
$A = \{29, 20, 18\}$

remove 15



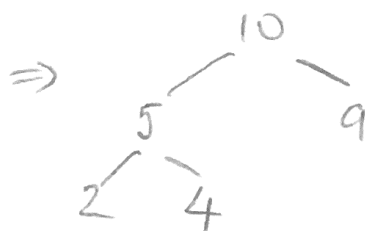
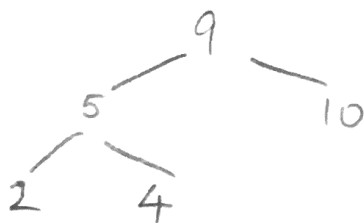
$A = \{29, 20, 18, 15\}$

remove 15



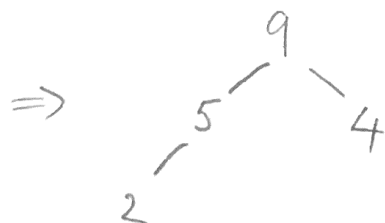
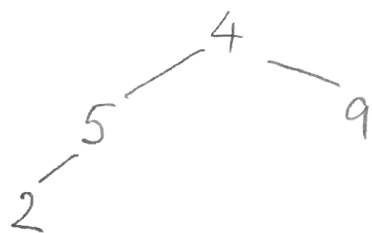
$A = \{29, 20, 18, 15, 15\}$

remove 13



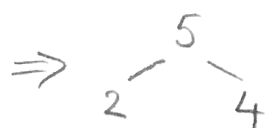
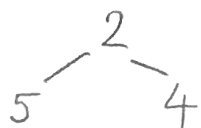
$A = \{29, 20, 18, 15, 15, 13\}$

remove 10



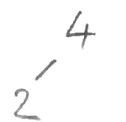
$A = \{29, 20, 18, 15, 15, 13, 10\}$

remove 9



$A = \{29, 20, 18, 15, 15, 13, 10, 9\}$

remove 5:



$A = \{29, 20, 18, 15, \dots$   
 $\dots 15, 13, 10, 9, 5\}$

remove 4:  $A = \{29, 20, 18, 15, 15, 13, 10, 9, 5, 4\}$

(2)

remove 2:  $A = \{29, 20, 18, 15, 15, 13, 10, 9, 5, 4, 2\}$   
NULL