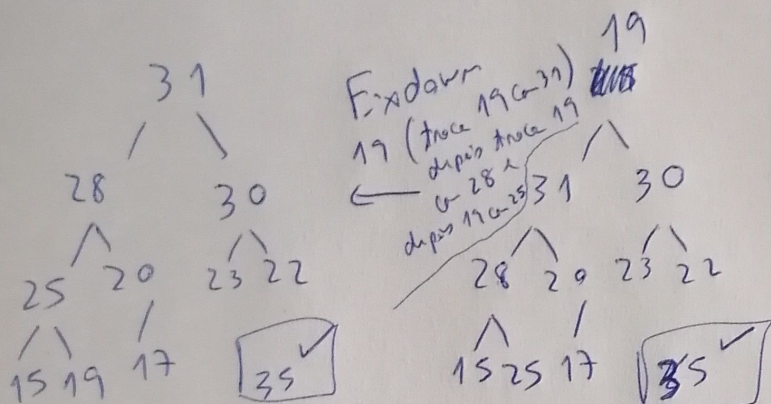
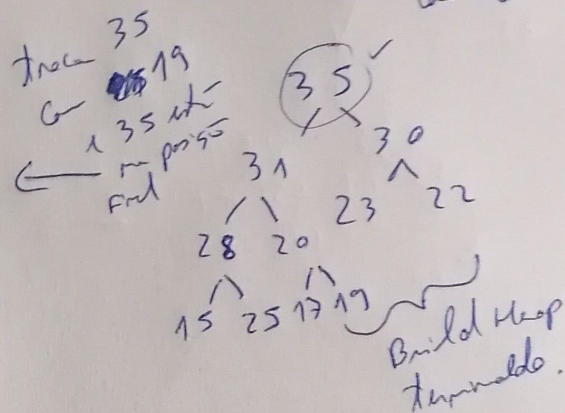
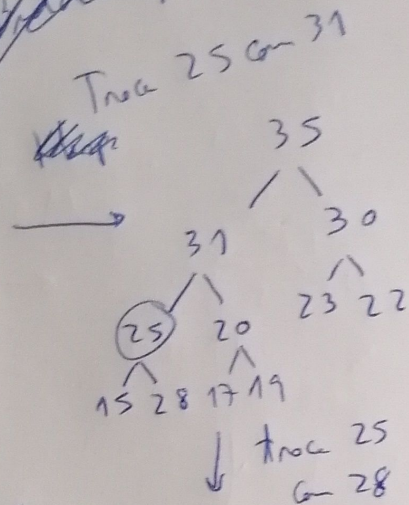
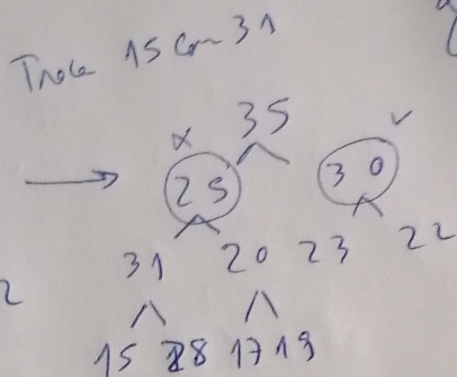
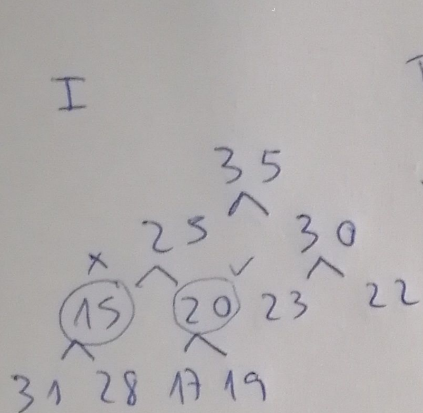
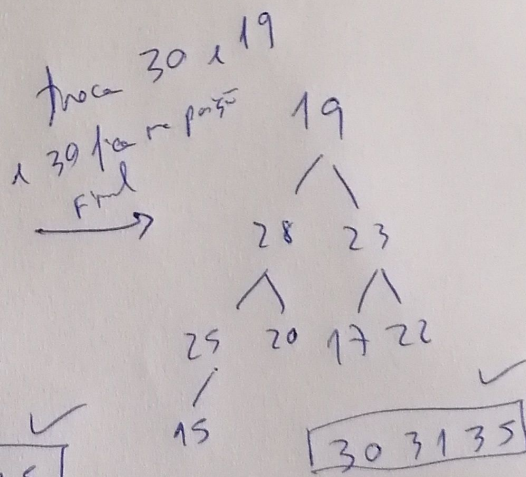
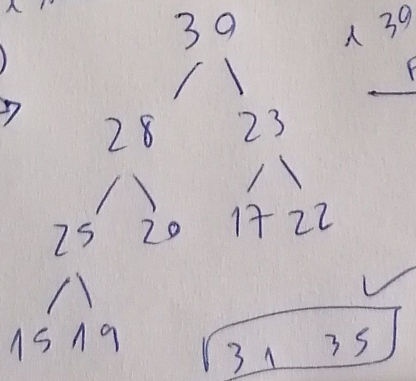
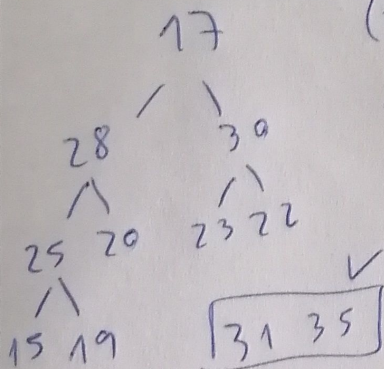


I



Trace 31
com 17
a 31 extra pos
full

Fixdown 17
(trace 17 30 a trace
17 a 23)



After Build Heap a 3 calls while
com as 3 means elements ordered:

$a = \{19, 28, 23, 25, 20, 17, 22, 15, 30, 31, 35\}$

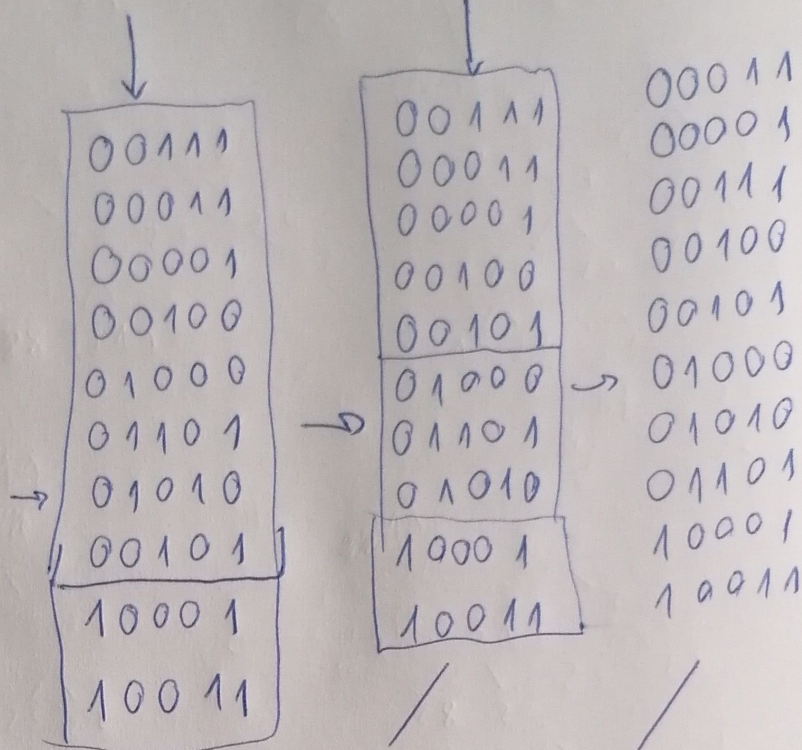
II

17 → 10001
 7 → 00111
 3 → 00011
 1 → 00001
 4 → 00100
 8 → 01000
 13 → 01101
 10 → 01010
 5 → 00101
 19 → 10011

1st stage

2nd stage

3rd stage



$a = \{7, 3, 1, 4, 8, 13, 10, 5, 17, 19\}$

$a = \{7, 3, 1, 4, 5, 8, 13, 10, 17, 19\}$

After 3 stages:
 FINAL: $a = \{3, 1, 7, 4, 5, 8, 10, 13, 17, 19\}$