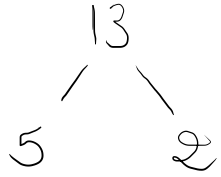
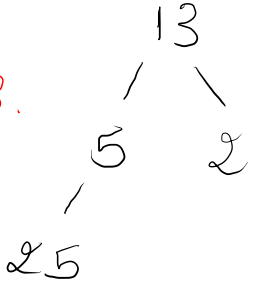
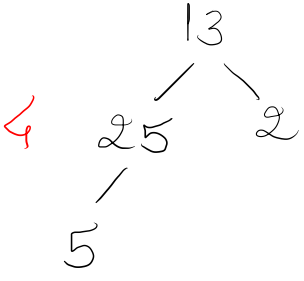
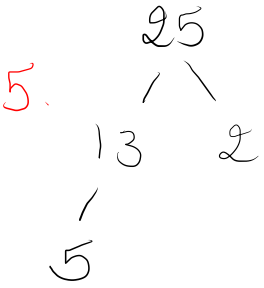
4. Ilustre a operação de HEAPSORT sobre o arranjo A = ⟨5, 13, 2, 25, 7, 17, 20, 8, 4⟩.

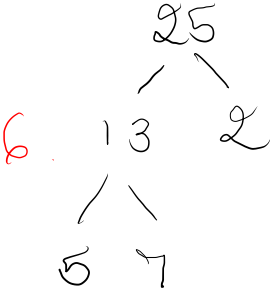
1.

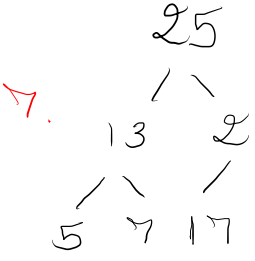

2.


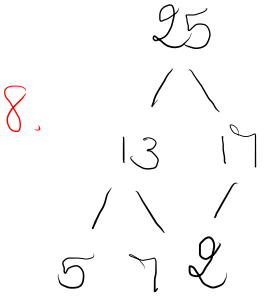
3.


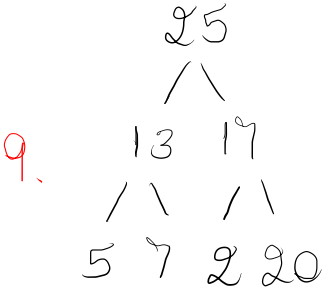
4


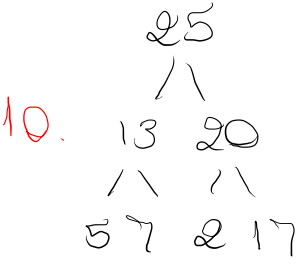
5.


6.


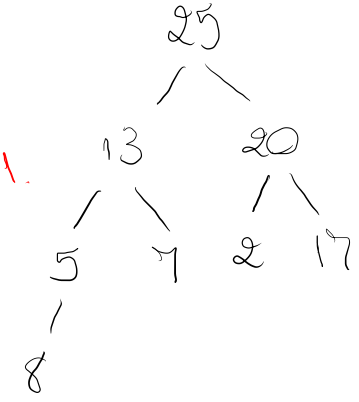
7.


8.


9.


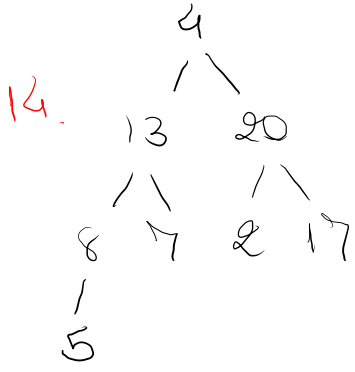
10.


11.



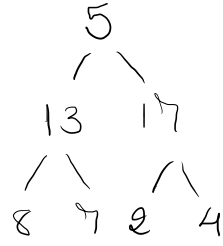
→ $A = \langle \ldots, 25 \rangle$

14.

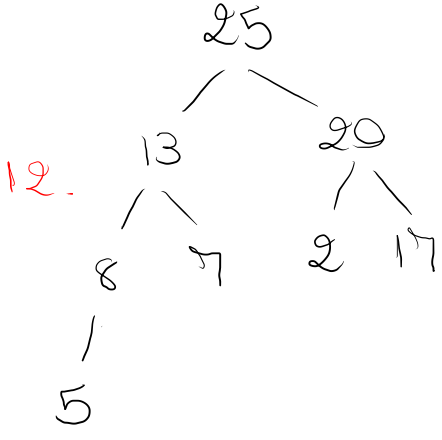


→ $A = \langle \ldots, 20, 25 \rangle$

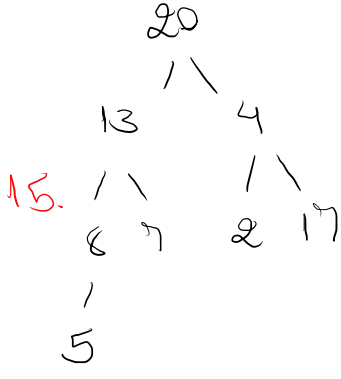
17.



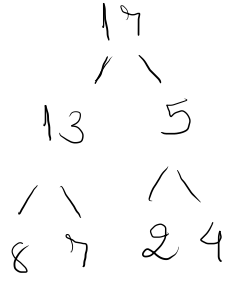
12.



15.

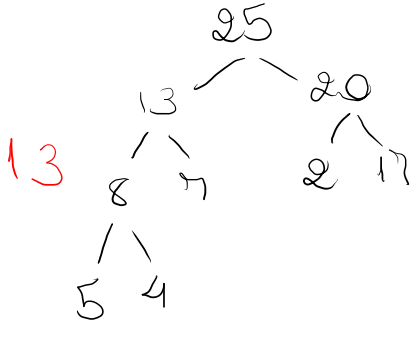


18.

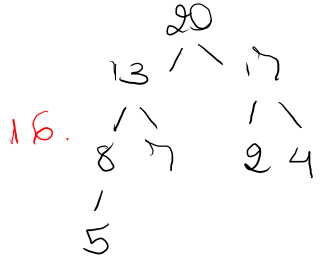


→ $A = \langle \ldots, 17, 20, 25 \rangle$

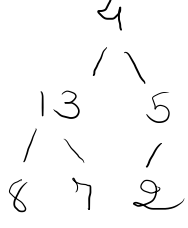
13



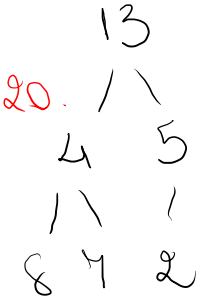
16.



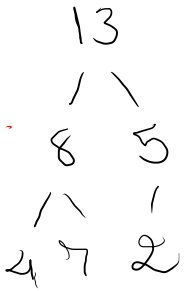
19.



20.



21.



→ A = <..., 13, 17, 20, 25>

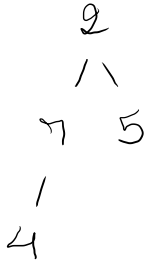
22.

23.

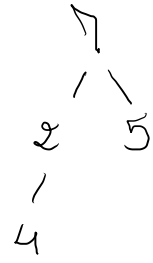
24

→ A = <..., 8, 13, 17, 20, 25>

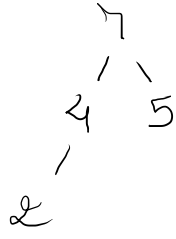
25.



26.



27.



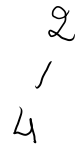
→ A = <..., 7, 8, 13, 17, 20, 25>

28.

29.

A = <..., 5, 7, 8, 13, 17, 20, 25>

30.



31.

→ A = < ..., 4, 5, 7, 8, 13, 17, 20, 25 >

32. 2

A = < 2, 4, 5, 7, 8, 13, 17, 20, 25 >

ordenado