

1) a) 0 5 b) Imprime pares com soma s

1 4

2 3

$$c) T(n) = \sum_{i=0}^{n-2} \sum_{j=1}^{n-1} \Theta(1) = \Theta(n^2)$$

2) V

F $\Theta(n \lg n)$

V

F (3, 4, 7, 6, 2, 1, 0, 5)

F $\Theta(n^2)$

F depende do pivô

V

F c.ex. (2, 3, 1, 1, 1)
 ↑ pivô

F só vetor ordenado

F melhor $O(1)$

$$3) h_0(7) = (7 \cdot 7 + 5) \bmod 5 = 4 \rightarrow 0 \rightarrow 1$$

T =

10	7			2
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Rehashing pl m = 11:

$$h_0(10) = (7 \cdot 10 + 5) \bmod 11 = 9$$

$$h_0(7) = (7 \cdot 7 + 5) \bmod 11 = 10$$

$$h_0(2) = (7 \cdot 2 + 5) \bmod 11 = 8$$

T =

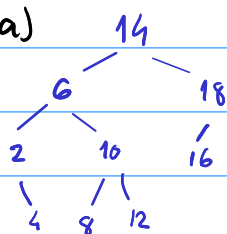
								2	10	7
--	--	--	--	--	--	--	--	---	----	---

$$h_0(13) = (7 \cdot 13 + 5) \bmod 11 = 8 \rightarrow 9 \rightarrow 0$$

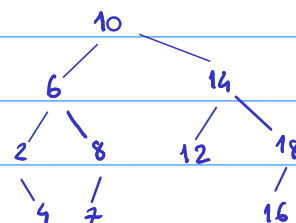
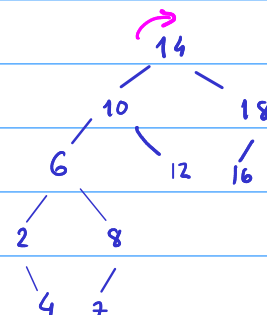
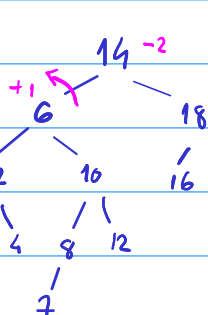
T =

13								2	10	7
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4) a)

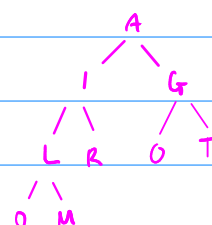
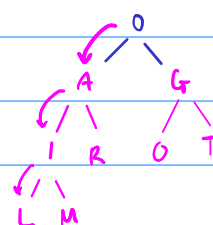
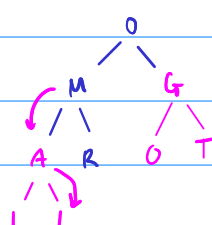
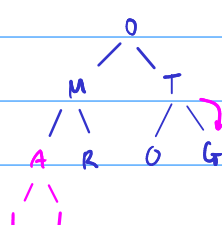
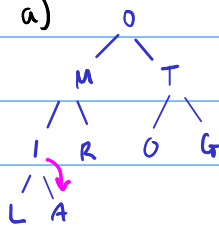


b)



5)

a)



b)

