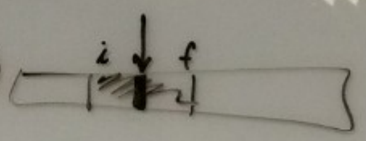
DEPARTAMENTO DE COMPUTAÇÃO

UNIVERSIDADE FEDERAL DO CEARÁ

CK0215 - T01 - 2019.1



LABORATÓRIO DE PROGRAMAÇÃO

AULA 04 - 27/02/2019

QUICKSORT E PARTICIONAMENTO

1. QUICKSORT(v, i, f):
   a) ESCOLHA UM PIVÔ.
   b) PARTICIONE v[i..f] COM RELAÇÃO AO PIVÔ, DEIXANDO-O NUMA POSIÇÃO "p".
   c) ORDENE v[i..p-1] E v[p+1..f] RECURSIVAMENTE.

EXEMPLO (UM NÍVEL):

3	2	1	4	5	6	9	8	7

PARTIC.

v:	4	1	3	2	5	8	9	7	6
	0	1	2	3					

i < j

v[i] ≤ v[j]

$237 = 2 \cdot 10^2 + 3 \cdot 10^2 + 7$

$= (2 * 10 + 3) * 10 + 7$

$0,237$

$0 + 2 * 10^{-1}$

$0,2 + 3 \cdot 10^{-2}$

$0,23 + 7 \cdot 10^{-3}$

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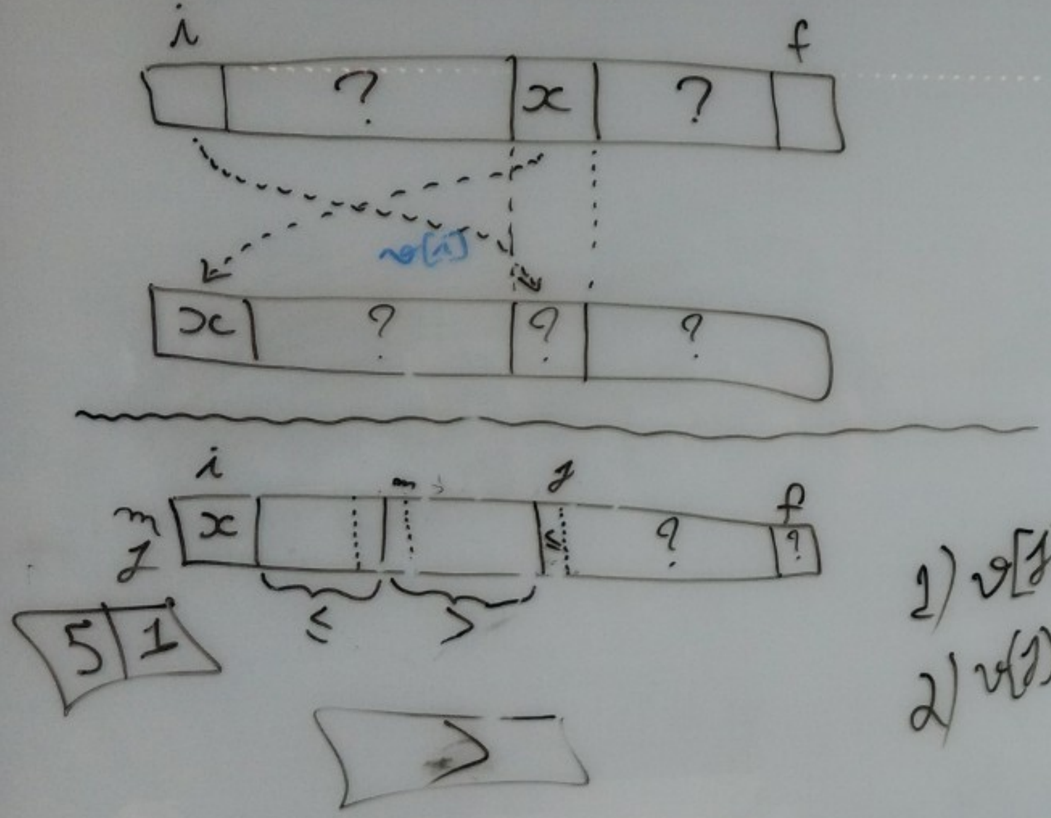
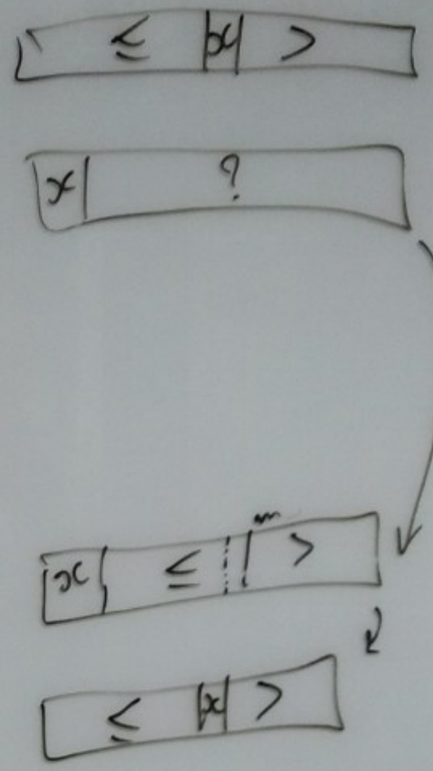
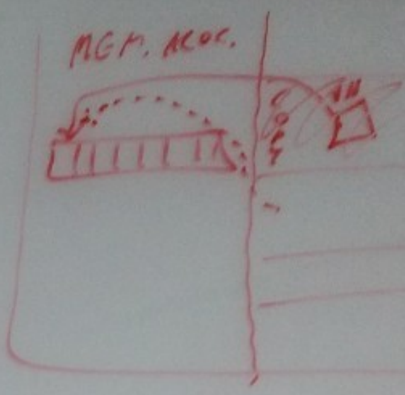
2. Particionamento de Lomuto:







COPY (INT T, INT * V){
INT * VN = NEW INT[2*T]
V → VN
RETURN VN