

② Array: 44, 12, 55, 42, 94, 18, 02, 68.

a- Insertion sort:

$\underbrace{44}_{S1}$	$\underbrace{12 \mid 55 \mid 42 \mid 94 \mid 18 \mid 02 \mid 68}_{S2}$	}	$\underbrace{12 \mid 44}_{S1}$	$\underbrace{55 \mid 42 \mid 94 \mid 18 \mid 02 \mid 68}_{S2}$
$12 < 44$				$55 > 44$

$\rightarrow \underbrace{12 \mid 44}_{S1}$	$\underbrace{55 \mid 42 \mid 94 \mid 18 \mid 02 \mid 68}_{S2}$	}	$\underbrace{12 \mid 42 \mid 44}_{S1}$	$\underbrace{55 \mid 94 \mid 18 \mid 02 \mid 68}_{S2}$
$4 < 55, < 44$				$94 > 55$

$\rightarrow \underbrace{12 \mid 42 \mid 44}_{S1}$	$\underbrace{55 \mid 94 \mid 18 \mid 02 \mid 68}_{S2}$	}	$\underbrace{12 \mid 18 \mid 42 \mid 44}_{S1}$	$\underbrace{55 \mid 94 \mid 02 \mid 68}_{S2}$
$18 < 94, < 55, < 44, < 42$				$02 \text{ e' } < \text{que todos}$

$\rightarrow \underbrace{02 \mid 12 \mid 18 \mid 42 \mid 44}_{S1}$	$\underbrace{55 \mid 94 \mid 68}_{S2}$	}	$\rightarrow 02 \mid 12 \mid 18 \mid 42 \mid 44 \mid 55 \mid 68 \mid 94 //$
$68 < 94$			

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 Lista 9

2b- Ordenação binária:

L	R	m
0	1	0
1	2	1
1	2	1
4	4	4
1	2	1
0	1	0
6	7	6

A = {44, 12, 55, 42, 94, 18, 02, 68}
 0 1 2 3 4 5 6 7

c- Shell sort (np = 2)
 $NP = 2 \rightarrow 2^2 = 4$ seq.

A = {44, 12, 55, 42, 94, 18, 02, 68}
 0 1 2 3 4 5 6 7

- 1° = {44, 94} → ordenado
- 2° = {12, 18} → ordenado
- 3° = {55, 02} → {02, 55} → ordenado
- 4° = {42, 68} → ordenado

A = {44, 12, 02, 42, 94, 18, 55, 68}
 0 1 2 3 4 5 6 7

$NP = 2 \rightarrow 2^{2-1} = 2$ seq.

- 1° = {44, 02, 94, 55} → {02, 44, 55, 94} → ordenado
- 2° = {12, 42, 18, 68} → {12, 18, 42, 68} → ordenado

A = {02, 12, 44, 18, 55, 42, 94, 68}

$NP = 2 \rightarrow 2^{1-1} = 1$ seq.

A = {02, 12, 18, 42, 44, 55, 68, 94} //