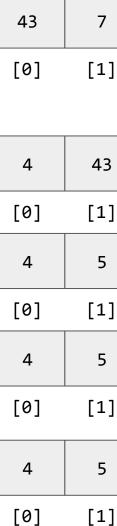
Sort 43 7 10 23 18 19 5 66 14 4 [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] Selection 1. 4 7 10 23 18 43 19 5 66 14 [0] [2] [3] [4] [5] [7] [8] [9] [1] [6] 2. 5 10 23 18 19 7 4 43 66 14 [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] 3. 4 5 7 23 18 43 19 10 66 14 [8] [0] [1] [2] [3] [4] [5] [6] [7] [9] 4. 7 4 5 10 18 43 19 23 66 14 [0] [1] [2] [3] [4] [5] [6] [8] [9] [7]

1.
2.
3.
4.



10

[2]

7

[2]

43

[2]

7

[2]

7

[2]

23

[3]

10

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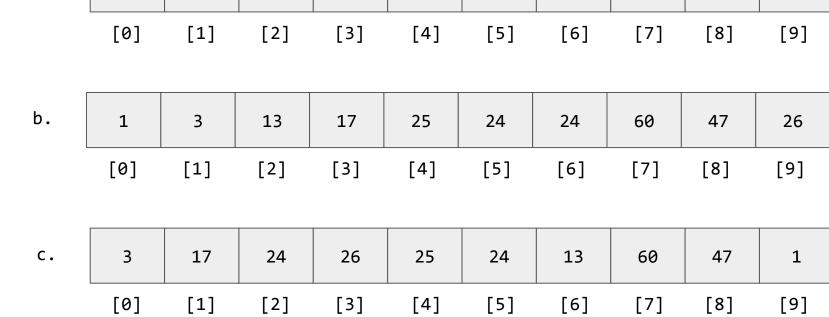
66

[9]

66

[9]

Given the following array:		<i>r</i> :	26	24	3	17	25	24	13	60	47	1	
		_	[0]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	
tell which sort	ing algorith	ım would p	roduce t	he foll	owing r	esults aft	er four	iteratio	ons:				
а.	1	3	13		17	26	24	4	24	25		47	60
	[0]	[1]	[2]	[[3]	[4]	[5	5]	[6]	[7]	[[8]	[9]



ť		26	24	3	17	25	24	13	60	47	1	
Sort		[0]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	
Insertion	1.	26	24	3	17	25	24	13	60	47	1	
	'	[0]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	
	2.	24	26	3	17	25	24	13	60	47	1	
J		[0]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	_
	3.	3	24	26	17	25	24	13	60	47	1	
		[0]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	
	4.	3	17	24	26	25	24	13	60	47	1	
		[0]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	



its processing whereas HeapSort sorts within the original array.

sort? Why?

A very large array of elements is to be sorted. The program will be run on a personal

computer with limited memory. Which sort would be a better choice: a heap sort or a merge

HeapSort would be a better choice than MergeSort, because MergeSort needs a copy of the array for