Quiz 7

Deadline	Friday, 31 July 2020 at 11:59PM
Latest Submission	no submission yet
Maximum Mark	4

Question 1 (1 mark)

Consider the following array of pairs

Which of the following shows the result of sorting this array on the first element in each pair using a stable sort?

Question 2 (1 mark)

Consider the following array, about to be sorted using quicksort

Which of these items would be chosen as the pivot if median-of-three pivot selection is used?

(a) O	3

(b) O	4
(c) O	5
(d) O	6
(e) O	7
(f) O	None of the above

Question 3 (1 mark)

Consider the following array

What would this array look like after the first three scans of the bubble sort algorithm?

Question 4 (1 mark)

What would be the result of merging these two arrays

 $\{1, 2, 12, 13, 39\}$

(a) O	{ 1, 2, 12, 13, 39, 4, 10, 15, 16, 23, 24, 31, 42 }
(b) O	{ 1, 2, 4, 10, 12, 13, 15, 16, 23, 24, 31, 39, 42 }

(c) O	{ 42, 39, 31, 24, 23, 16, 15, 13, 12, 10, 4, 2, 1 }
(d) O	The arrays cannot be merged because they are different lengths
(e) O	None of the above is correct

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