Quiz 7

Deadline	Friday, 31 July 2020 at 11:59PM
Latest Submission	Friday, 31 July 2020 at 11:03AM
Raw Mark	4.00/4.00 (100.00%)
Late Penalty	N/A
Final Mark	4.00/4.00 (100.00%)

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* ?

(d)	{ (c,1), (c,2), (d,2), (b,3), (d,3), (b,4), (a,4), (a,5) }
(e)	None of the above resulted from a stable sort

✓ Your response was correct.

Mark: 1.00

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)	3
(b)	4
(c)	5
(d)	6
(e)	7
(f)	None of the above

✓ Your response was correct.

Mark: 1.00

Question 3 (1 mark)

Consider the following array

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

✓ Your response was correct.

Mark: 1.00

Question 4 (1 mark)

What would be the result of merging these two arrays

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

✓ Your response was correct.

Mark: 1.00