

Started on	Tuesday, 18 February 2020, 1:13 AM
State	Finished
Completed on	Tuesday, 18 February 2020, 1:14 AM
Time taken	32 secs
Marks	4.00/5.00
Grade	80.00 out of 100.00
Feedback	Congratulations!! You have passed by securing more than 80%

Question 1

Incorrect

Mark 0.00
out of 1.00

Flag
question

You have to sort a list 'L' which consists of some sorted elements and few "random" elements. Which of the following sorting methods would be especially suitable for such a task?

Select one:

- ☐ Insertion sort
- ☒ Selection sort ✖
- ☐ Bubble sort
- ☐ Quick sort

Your answer is incorrect.

The correct answer is: Insertion sort

Question 2

Correct

Mark 1.00
out of 1.00

Flag
question

Time complexities of three algorithms are given. Which should execute the slowest for large values of N?

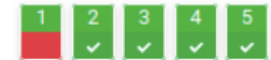
Select one:

- ☐ $O(\log N)$
- ☒ $O(n^2)$ ✔
- ☐ $O(N)$
- ☐ $O(2N)$

Your answer is correct.

The correct answer is: $O(n^2)$

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Question 3

Correct

Mark 1.00
out of 1.00

Flag
question

Rearrange the below algorithm for Bubble Sort.
Input: A is the list of elements and n is the size of the list
Output: A1, A2,...,An, arranged in increasing order

✓ procedure bubbleSort(A,n)

✓ for i = 0 to n-1

✓ for j = 0 to n-i-1

✓ if A[j] > A[j+1]

✓ swap a[j] <-> A[j+1]

✓ end bubbleSort

Your answer is correct.

Question 4

Correct

Mark 1.00
out of 1.00

Flag
question

What is the time complexity for executing merge sort on an array of size n which is already sorted is

Select one:

- ☐ $O(n^2)$
- ☒ $O(n \log n)$ ✓
- ☐ $O(\log n)$
- ☐ $O(n)$

Your answer is correct.

The correct answer is: $O(n \log n)$

Question 5

Correct

Mark 1.00
out of 1.00

Flag
question

If the given array is {6,2, 5, 1, 9 }, the 3rd number from the left while doing bubble sort in the 2nd iteration is 5 ✓ .

The correct answer is: 5

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