Started on	Sunday, 3 March 2019, 11:02 PM
State	Finished
Completed on	Sunday, 3 March 2019, 11:20 PM
Time taken	18 mins 20 secs
Grade	**7.00** out of 10.00 (**70**%)

Question 1

Correct Mark 2.00 out of 2.00

An array consists of N elements. We want to create a heap using the elements. The time complexity of building a heap will be in order of

Select one:

- a. O(N*log(N)*log(N))
- b. O(N*log N) ✓
- c. O(N*N)
- d. O(N*N*log N)

Your answer is correct.

The correct answer is: O(N*log N)

Question 2

Correct Mark 1.00 out of 1.00

Which one is not an $O(N^2)$ algorithm?

Select one:

- a. Selection Sort
- b. Bubble Sort
- c. Insertion Sort
- d. Heap Sort ✓

Your answer is correct.

The correct answer is: Heap Sort

Question 3

Correct Mark 2.00 out of 2.00

Heap can be used as

Select one:

- a. A decreasing order array
- b. Priority queue ✓
- c. None of the options
- d. All of the options
- e. Stack

Your answer is correct.

The correct answer is: Priority queue

Question 4

Correct Mark 1.00 out of 1.00

Heap-sort is in-place sorting algorithm.

Select one:

- True ✓
- False

The correct answer is 'True'.

Question 5

Incorrect Mark 0.00 out of 1.00

Which of the following is not a variety of transform and conquer strategy?

Select one:

- a. None of the above ✗
- b. Variable size decrease
- c. Instance Simplification
- d. Problem Reduction
- e. Representation Change

Your answer is incorrect.

The correct answer is: Variable size decrease

Question 6

Incorrect Mark 0.00 out of 1.00

Heaps and heap-sort is a good example of:

Select one:

- a. None of the options
- b. Problem Reduction variety of transform and conquer strategy
- c. Representation Change variety of transform and conquer strategy
- d. Instance Simplification variety of transform and conquer strategy
- e. All of the options ✗

Your answer is incorrect.

The correct answer is: Representation Change variety of transform and conquer strategy

Question 7

Incorrect Mark 0.00 out of 1.00

Rotations in AVL trees is a good example of:

Select one:

- a. All the options ✗
- b. None of the options
- c. Problem Reduction variety of transform and conquer strategy
- d. Instance Simplification variety of transform and conquer strategy
- e. Representation Change variety of transform and conquer strategy

Your answer is incorrect.

The correct answer is: Instance Simplification variety of transform and conquer strategy

Question 8

Correct Mark 1.00 out of 1.00

Which variety of transform and conquer approach is used by the algorithm that computes the LCM using Euclid's algorithm to compute GCD?

Select one:

- a. Instance Simplification variety of transform and conquer strategy
- b. Representation Change variety of transform and conquer strategy
- c. Problem Reduction variety of transform and conquer strategy ✓
- d. None of the options

Your answer is correct.

The correct answer is: Problem Reduction variety of transform and conquer strategy

◀ Discussion 4 Jump to... Webinar 4 Synopsis ▶