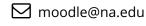
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Dashboard > My courses > COMP > COMP 5327.Advanced Algorithms.2019SPR.s1 > 25 February - 3 March > Quiz 6

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
Grado	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(N²) 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 X
- 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 X

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 X
- 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 ▶