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Final Exam

Question 1

1/1 point (graded)

1. The sort algorithm that is based on the idea of finding the minimum or maximum element in an	unsorted
array is called?	

Merge sort	
Bubble sort	
Selection sort	✓
O Quick sort	
Insertion sort	

Answer

Correct: Correct, the Selection sort algorithm is one of the simplest sorting algorithm

Submit

You have used 2 of 3 attempts

Question 2

0/1 point (graded)

2. Which sort algorithm makes use of the insertion sort and merge sort?

Timsort

O Quick sort						
Selection sort						
● Insertion sort X						
Answer Incorrect: Incorrect, try again						
Submit You have used 3 of 3 attempts						
1/1 point (graded) 3. Insertion sorts provide several advantages. Which of the following are the main advantages? Makes use of other sorts						
Useful for large data sets and Timsorts						
Simple implementation, efficient for small data sets and memory efficient ✓						
 Simple implementation, efficient for small data sets and memory efficient ✓ Efficient use of Quick sorts, merge sorts and memory efficient 						

Question 4

1/1 point (graded)

4. There are basically two main types of search algorithms. These are called:

Note: Make sure you select all of the correct options—there may be more than one!

☐ Merge Search				
✓ Sequential Search				
☐ Linear Search				
✓ Interval Search				
Bubble Search				
✓				
Submit You have used 2 of 3 attempts				

Question 5

Submit

1/1 point (graded)

5. Which type of search algorithm is considered to be the most efficient?

•	Interval Search 🗸
0	Sequential Search
0	Geometric Search
0	Graphing Search

Answer

Correct:

Correct, Interval search algorithms are more efficient than sequential search algorithms because the Interval search breaks an array into smaller parts to be searched.

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You have used 2 of 3 attempts

Question 6

- 1/1 point (graded)
- 6. Linear or Sequential search algorithms...
 - sort data first before searching.
 - need data to be sorted before searching.
 - examine each element in the array in sequence, working from the beginning of the array to the end in a linear fashion. ✔
 - ompares the target value to the value of the item at the mid-point of the array.

Answer

Correct:

Correct, Linear or Sequential search algorithms examine each element in the array in sequence, working from the beginning of the array to the end in a linear fashion.

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You have used 1 of 3 attempts

Question 7

1/1 point (graded)

- 7. Interval search algorithms ...
 - uses data from multiple datasets to find the correct answer.
 - must use a simple binary approach for the search.

- O does not compares the target value to the value of the item at the mid-point of the array.
- break the array into smaller parts to be searched.

Answer

Correct:

Correct, Interval algorithms are more efficient than sequential search algorithms, but they need data to be sorted before searching.

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Question 8

1/1 point (graded)

- 8. Another name for Combinatorial Computational Geometry is,
 - Map geometry
 - Algorithmic Geometry
 - CAD/CAM geometry.
 - Modeling geometry.

Answer

Correct:

Correct, the primary goal in combinatorial computational geometry is to develop efficient algorithms and data structures for solving problems in terms of basic geometrical objects such as circles, triangles and polygons.

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You have used 1 of 3 attempts

Question 9

1/1 point (graded)

Note: Make sure you select all of the correct options—there may be more than one!

9.	Geometric	algorithms	can be used	for which	of these tasks?
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- Building topographical maps
- ✓ Computer-aided design and manufacturing
- Construction
- Pyramid building
- Aerospace design



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You have used 2 of 3 attempts

Question 10

1/1 point (graded)

10. Al application for Geometric algorithms include:

- Planning and collision avoidance for robots in motion; planning the best path around a complicated obstacle.
- Opening airspace with geographic information systems to resolve airspace issues, and direct search and rescue efforts.
- Studying biochemistry and virology to advance medical research and treatments.
- All of the above

Answer

Correct: Correct, all of these applications make use of geometric and graphing algorithms.

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You have used 1 of 3 attempts



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