

Virtual Labs
An MHRD Govt of India Initiative

Bubble Sort Experiment

Pre-Test

Recap

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Bubble Sort

Optimized Bubble Sort


Analysis

Post Test

Further Readings/References

Feedback

Bubble Sort Experiment

 Your score: 4/4

Multiple Choice Questions

Correct

Q1. Which of these best describes an array?

☐

 (A) A data structure that shows a hierarchical behavior

☒

 (B) Container of objects of similar types ✓

☐

 (C) Container of objects of mixed types


☐



 (D) All of the mentioned


Explanation

An array is a data structure, which can store a fixed-size collection of elements of the same data type.

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Basic Concept

Bubble Sort Algorithm

Bubble Sort Demo

Bubble Sort Practice


Bubble Sort Exercise

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Optimized Bubble Sort

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 Your score: 3/3

Multiple Choice Questions

Correct

Q1. When do we swap the i th and $(i+1)$ th element of an array A while doing Bubble Sort?





- ☐ (A) $A[i] \geq A[i+1]$
- ☒ (B) $A[i] > A[i+1]$ ✓
- ☐ (C) $A[i] \leq A[i+1]$
- ☐ (D) $A[i] < A[i+1]$

Explanation

Elements are ordered incorrectly i.e. they are in decreasing order. Note


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- Basic Concept
- Bubble Sort Algorithm
- Bubble Sort Demo
- Bubble Sort Practice
- Bubble Sort Exercise
- Bubble Sort Quiz
- Optimized Bubble Sort
 - Optimization Technique
 - Optimized Bubble Sort Demo
 - Optimized Bubble Sort Practice
 - Optimized Bubble Sort Exercise
 - Optimized Bubble Sort Quiz**
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Bubble Sort Experiment

 **Your score: 3/3**

Multiple Choice Questions

Correct

Q1. How many iterations do I need to run to sort an already sorted array with N elements?

- ☐ (A) N iterations
- ☐ (B) N-1 iterations
- ☒ (C) 1 iteration ✓
- ☐ (D) 2 iterations

Explanation

There will be no swaps in the first iteration hence we can stop af

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