Exit Ticket

1. Explain in your own words how bubble sort works.

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2. When might bubble sort be useful?

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3. True or False: Bubble sort is the most efficient sorting algorithm.

a) True

b) False

4. What are some ways to improve the efficiency of bubble sort?

a) Stopping if no swaps are made on a single pass

b) Reducing the number of comparisons by one after each pass

c) Both a and b

d) None of the above

5. Which of the following is NOT a step in the bubble sort algorithm?

a) Compare the first two elements of the list.

b) If the first element is greater than the second element, swap them.

c) Move to the next pair of elements and repeat the comparison and swapping process.

d) Repeat the above steps for multiple passes until the list is fully sorted.

6. What is the purpose of sorting data in computer science?

a) To organize information

b) To make searching easier

c) To improve processing speed

d) All of the above

7. True or False: Bubble sort is an efficient algorithm for sorting large sets of data.

a) True

b) False

8. How many passes are required to fully sort a list of n elements using bubble sort?

a) n

b) n-1

c) n^2

d) n/2

9. Which of the following is an example of a sorting algorithm?

a) Bubble sort

b) Searching

c) Adding

d) Subtracting

10. What is the main takeaway from learning about bubble sort?

a) Bubble sort is the most efficient sorting algorithm.

b) Bubble sort is a stepping stone to other more efficient sorting algorithms.

c) Bubble sort is only used in computer science.

d) Bubble sort is not useful in real-life applications.