Greedy algo Quiz

Difficulty: basic Type: FILL

Score: 0.0%

1. Greedy algo step.	orithms always make the	optimum choice at each
Your answer: d Correct answe		
Explanation: Greethe overall impac	, ,	diate best option without considering
2. In the Activit	-	s are sorted according to their
Your answer: h Correct answe		
Explanation: Sort overlapping activ	ting by end times allows for selecti rities.	ing the maximum number of non-
•	downside of greedy algorithm optimum solution.	s is that they may not always
Your answer: s Correct answe		
Explanation: Loca	al optimization doesn't guarantee	finding the best overall solution.
4. In the Fraction	onal Knapsack problem, the i	tems are sorted based on their
Your answer: d Correct answe	d er: value-to-weight	

5. To minimize the sum of absolute differences in pairing elements from two arrays, both arrays should be
Your answer: d Correct answer: sorted
Explanation: Sorting minimizes the differences between paired elements.
6. In the Maximum Length Chain of Pairs problem, a pair (c, d) can follow (a, b) if
Your answer: d Correct answer: b < c
Explanation: This condition ensures the formation of a valid chain of pairs.
7. In the Indian Coins problem, to minimize the number of coins, the denominations should be considered in order.
Your answer: f Correct answer: descending
Explanation: Larger denominations are used first to reduce the total number of coins.
8. The Job Sequencing problem aims to maximize given deadlines and profits for each job.
Your answer: d Correct answer: profit
Explanation: Jobs are scheduled strategically to achieve the highest possible profit.
9. In the Chocolate problem, to minimize breaking cost, cuts should be made first.
Your answer: d Correct answer: expensive
Explanation: Prioritizing expensive cuts reduces the overall cost.

Explanation: This ratio helps maximize the total value within the knapsack's capacity.

10. The number of breaks required to divide a chocolate bar with m x n squares into individual squares is _____.

Your answer: d

Correct answer: m + n - 2

Explanation: m-1 vertical breaks and n-1 horizontal breaks are needed.