CLRS Exercise Solutions- Greedy Algorithms

An activity-selection problem

15.1-1
Give a dynamic-programming algorithm for the activity-selection problem, based on recurrence (15.2). Have your algorithm compute the sizes $c[i, j]$ as defined above and also produce the maximum-size subset of mutually compatible activities.

Assume that the inputs have been sorted as in equation (15.1). Compare the running time of your solution to the running time of GREEDY-ACTIVITY-SELECTOR.

The given algorithm would just stupidly compute the minimum of the $O(n)$ numbers or return zero depending on the size of S_{ij}. There are a possible number of subproblems that is $O(n^2)$ since we are selecting i and j so that $1 \leq i < j \leq n$. So, the runtime would be $O(n^2)$.

15.1-2
Suppose that instead of always selecting the first activity to finish, you instead select the last activity to start that is compatible with all previously selected activities. Describe how this approach is a greedy algorithm, and prove that it yields an optimal solution.

This becomes exactly the same as the original problem if we imagine time running in reverse, so it produces an optimal solution for essentially the same reasons. It is greedy because we make the best looking choice at each step.

15.1-3
Not just any greedy approach to the activity-selection problem produces a maximum-size set of mutually compatible activities. Give an example to show that the approach of selecting the activity of least duration from among those that are compatible with previously selected activities does not work. Do the same for the approaches of always selecting the compatible activity that overlaps the fewest other remaining activities and always selecting the compatible remaining activity with the earliest start time.

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Mike Jess

Algorithm Clrs Exercise Solution:

The book delves into Algorithm Clrs Exercise Solution. Algorithm Clrs Exercise Solution is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Algorithm Clrs Exercise Solution, encompassing both the fundamentals and more intricate discussions.

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   - Chapter 1: Introduction to Algorithm Clrs Exercise Solution
   - Chapter 2: Essential Elements of Algorithm Clrs Exercise Solution
   - Chapter 3: Algorithm Clrs Exercise Solution in Everyday Life
   - Chapter 4: Algorithm Clrs Exercise Solution in Specific Contexts
   - Chapter 5: Conclusion

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