# CLRS Exercise Solutions- Dynamic Programming Rod cutting

#### I - I - I

Show that equation (14.4) follows from equation (14.3) and the initial condition T(0) = 1.

$$T(n) = 1 + \sum_{j=0}^{n-1} T(j). \tag{14.3}$$

The initial 1 is for the call at the root, and the term T(j) counts the number of calls (including recursive calls) due to the call CUT ROD(p, n - i), where i = n - i.

$$T(n) = 2^n , (14.4)$$

#### Solution-

Proceed by induction. The base case of  $T(0) = 2^{0} = 1$ . Then, we apply the inductive hypothesis and recall equation (A.5) to get that

$$T(n) = 1 + \sum_{j=0}^{n-1} T(j) = 1 + \sum_{j=0}^{n-1} 2^j = 1 + \frac{2^n - 1}{2 - 1} = 1 + 2^n - 1 = 2^n$$

#### 14.1-2

Show, by means of a counterexample, that the following "greedy" strategy does not always determine an optimal way to cut rods. Define the *density* of a rod of length i to be  $p_i/i$ , that is, its value per inch. The greedy strategy for a rod of length n cuts off a first piece of length i, where  $1 \le i \le n$ , having maximum

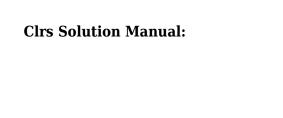
density. It then continues by applying the greedy strategy to the remaining piece of length  $n-\ell$ .

#### Solution-

Let  $p_1 = 0$ ,  $p_2 = 4$ ,  $p_3 = 7$  and n = 4. The greedy strategy would first cut off a piece of length 3 since it has highest density. The remaining rod has length 1, so the total price would be 7. On the other hand, two rods of length 2 yield a price of 8.

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#### **Table of Contents Clrs Solution Manual**

- 1. Understanding the eBook Clrs Solution Manual
  - The Rise of Digital Reading Clrs Solution Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Clrs Solution Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Clrs Solution Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Clrs Solution Manual
  - Personalized Recommendations
  - Clrs Solution Manual User Reviews and Ratings
  - Clrs Solution Manual and Bestseller Lists
- 5. Accessing Clrs Solution Manual Free and Paid eBooks
  - Clrs Solution Manual Public Domain eBooks
  - Clrs Solution Manual eBook Subscription Services
  - Clrs Solution Manual Budget-Friendly Options
- 6. Navigating Clrs Solution Manual eBook Formats

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- Clrs Solution Manual Compatibility with Devices
- Clrs Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Clrs Solution Manual
  - Highlighting and Note-Taking Clrs Solution Manual
  - Interactive Elements Clrs Solution Manual
- 8. Staying Engaged with Clrs Solution Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Clrs Solution Manual
- 9. Balancing eBooks and Physical Books Clrs Solution Manual
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Clrs Solution Manual
- 10. Overcoming Reading Challenges
  - $\circ\,$  Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Clrs Solution Manual
  - Setting Reading Goals Clrs Solution Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Clrs Solution Manual
  - Fact-Checking eBook Content of Clrs Solution Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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