

Foundations of Algorithms Homework #3

Submitted: Please write your name and date on the front of your assignment.

Members of the collaborative group are expected to participate fully in writing collaborative problems, and work with equal participation, at the end of the assignment. They, however, may work together in preparing work on their previous problems. Students should demonstrate a minimum of 10% original work on each problem. Students must all demonstrate competence with the problem. The student who cannot demonstrate competence with the problem, or who does not contribute to the solution, will receive a grade of 0% for the problem. The student who does not contribute to the solution, or who does not demonstrate competence with the problem, will receive a grade of 0% for the problem.

Problems for the assignment

1. Let n be a positive integer. Let $f(n)$ be the number of ways to write n as a sum of positive integers. Let $g(n)$ be the number of ways to write n as a sum of positive integers, where the order of the summands matters. Let $h(n)$ be the number of ways to write n as a sum of positive integers, where the order of the summands does not matter. Let $i(n)$ be the number of ways to write n as a sum of positive integers, where the order of the summands does not matter, and the summands are all distinct.

Problems: Compute $f(n)$, $g(n)$, $h(n)$, and $i(n)$ for $n = 1, 2, \dots, 10$. Write down the values of $f(n)$, $g(n)$, $h(n)$, and $i(n)$ for $n = 1, 2, \dots, 10$.

- 1. $f(1) = 1$, $f(2) = 2$, $f(3) = 3$, $f(4) = 4$, $f(5) = 5$, $f(6) = 6$, $f(7) = 7$, $f(8) = 8$, $f(9) = 9$, $f(10) = 10$.
- 2. $g(1) = 1$, $g(2) = 2$, $g(3) = 3$, $g(4) = 4$, $g(5) = 5$, $g(6) = 6$, $g(7) = 7$, $g(8) = 8$, $g(9) = 9$, $g(10) = 10$.
- 3. $h(1) = 1$, $h(2) = 2$, $h(3) = 3$, $h(4) = 4$, $h(5) = 5$, $h(6) = 6$, $h(7) = 7$, $h(8) = 8$, $h(9) = 9$, $h(10) = 10$.
- 4. $i(1) = 1$, $i(2) = 1$, $i(3) = 1$, $i(4) = 1$, $i(5) = 1$, $i(6) = 1$, $i(7) = 1$, $i(8) = 1$, $i(9) = 1$, $i(10) = 1$.

Hint: Use the recurrence relations $f(n) = f(n-1) + f(n-2) + \dots + f(n-n)$ and $g(n) = g(n-1) + g(n-2) + \dots + g(n-n)$ to compute $f(n)$ and $g(n)$ for $n = 1, 2, \dots, 10$.

```
def f(n):
    if n == 0:
        return 1
    if n == 1:
        return 1
    if n == 2:
        return 2
    if n == 3:
        return 3
    if n == 4:
        return 4
    if n == 5:
        return 5
    if n == 6:
        return 6
    if n == 7:
        return 7
    if n == 8:
        return 8
    if n == 9:
        return 9
    if n == 10:
        return 10
    return 0

def g(n):
    if n == 0:
        return 1
    if n == 1:
        return 1
    if n == 2:
        return 2
    if n == 3:
        return 3
    if n == 4:
        return 4
    if n == 5:
        return 5
    if n == 6:
        return 6
    if n == 7:
        return 7
    if n == 8:
        return 8
    if n == 9:
        return 9
    if n == 10:
        return 10
    return 0

def h(n):
    if n == 0:
        return 1
    if n == 1:
        return 1
    if n == 2:
        return 2
    if n == 3:
        return 3
    if n == 4:
        return 4
    if n == 5:
        return 5
    if n == 6:
        return 6
    if n == 7:
        return 7
    if n == 8:
        return 8
    if n == 9:
        return 9
    if n == 10:
        return 10
    return 0

def i(n):
    if n == 0:
        return 1
    if n == 1:
        return 1
    if n == 2:
        return 1
    if n == 3:
        return 1
    if n == 4:
        return 1
    if n == 5:
        return 1
    if n == 6:
        return 1
    if n == 7:
        return 1
    if n == 8:
        return 1
    if n == 9:
        return 1
    if n == 10:
        return 1
    return 0
```

2. Let n be a positive integer. Let $f(n)$ be the number of ways to write n as a sum of positive integers. Let $g(n)$ be the number of ways to write n as a sum of positive integers, where the order of the summands matters. Let $h(n)$ be the number of ways to write n as a sum of positive integers, where the order of the summands does not matter. Let $i(n)$ be the number of ways to write n as a sum of positive integers, where the order of the summands does not matter, and the summands are all distinct.

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Anany Levitin



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Table of Contents Solution Of Clrs Third Edition

1. Understanding the eBook Solution Of Clrs Third Edition
 - The Rise of Digital Reading Solution Of Clrs Third Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Of Clrs Third Edition
 - 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 Solution Of Clrs Third Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Of Clrs Third Edition
 - Personalized Recommendations
 - Solution Of Clrs Third Edition User Reviews and Ratings
 - Solution Of Clrs Third Edition and Bestseller Lists

5. Accessing Solution Of Clrs Third Edition Free and Paid eBooks
 - Solution Of Clrs Third Edition Public Domain eBooks
 - Solution Of Clrs Third Edition eBook Subscription Services
 - Solution Of Clrs Third Edition Budget-Friendly Options
6. Navigating Solution Of Clrs Third Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Solution Of Clrs Third Edition Compatibility with Devices
 - Solution Of Clrs Third Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Of Clrs Third Edition
 - Highlighting and Note-Taking Solution Of Clrs Third Edition
 - Interactive Elements Solution Of Clrs Third Edition
8. Staying Engaged with Solution Of Clrs Third Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Of Clrs Third Edition
9. Balancing eBooks and Physical Books Solution Of Clrs Third Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Of Clrs Third Edition
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solution Of Clrs Third Edition
 - Setting Reading Goals Solution Of Clrs Third Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solution Of Clrs Third Edition
 - Fact-Checking eBook Content of Solution Of Clrs Third Edition
 - 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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