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**Book Proposed:** DISCRETE MATHEMATICAL STRUCTURES Theory and Applications

**Total Chapters:** 6

**Total Examples:** 80

**Codable Examples:** 80

**Chapter 1: Foundations Sets Logic and Algorithm**

Example 1.1.1 – Codable

Example 1.1.2 – Codable

Example 1.1.3 – Codable

Example 1.1.4 – Codable

Example 1.1.5 – Codable

Example 1.1.7.a – Codable

Example 1.1.7.b– Codable

Example 1.1.7.c– Codable

Example 1.1.9– Codable

Example 1.1.10– Codable

Example 1.1.12.a– Codable

Example 1.1.12.c– Codable

Example 1.1.15.a– Codable

Example 1.1.15.b– Codable

Example 1.1.15.c– Codable

Example 1.1.35– Codable

Example 1.1.43– Codable

Example 1.2.24– Codable

Example 1.3.3 – Codable

Example 1.3.6– Codable

**Chapter 2: Integers And Mathematical Induction**

Example 2.1.8.b– Codable

Example 2.1.10– Codable

Example 2.1.21– Codable

Example 2.1.23– Codable

Example 2.2.7– Codable

Example 2.2.8– Codable

Example 2.2.33– Codable

Example 2.2.34– Codable

Example 2.2.25– Codable

Example 2.2.36– Codable

Example 2.4.11– Codable

Example 2.4.12– Codable

Example 2.5.3– Codable

Example 2.5.4– Codable

Example 2.1.9– Codable

**Chapter 3: Relations and Posets**

Example 3.1.3 – Codable

Example 3.1.4– Codable

Example 3.1.5– Codable

Example 3.1.6– Codable

Example 3.1.7– Codable

Example 3.1.8– Codable

Example 3.1.10– Codable

Example 3.1.11– Codable

Example 3.1.13– Codable

Example 3.1.15– Codable

Example 3.1.16– Codable

Example 3.1.20– Codable

Example 3.1.28– Codable

Example 3.1.29– Codable

Example 3.1.38– Codable

Example 3.1.42– Codable

Example 3.1.58– Codable

Example 3.2.10– Codable

Example 3.2.16– Codable

Example 3.2.17– Codable

**Chapter 4: Matrices and Closures of Relations**

Example 4.1.2– Codable

Example 4.1.11– Codable

Example 4.1.14– Codable

Example 4.1.18– Codable

Example 4.1.22– Codable

Example 4.1.28– Codable

Example 4.2.3– Codable

Example 4.2.8– Codable

Example 4.1.7– Codable

Example 4.1.9– Codable

**Chapter 5: Functions**

Example 5.1.4– Codable

Example 5.1.11– Codable

Example 5.1.12– Codable

Example 5.1.21.a– Codable

Example 5.1.21.b– Codable

Example 5.1.22– Codable

Example 5.3.4– Codable

Example 5.3.11– Codable

Example 5.3.18– Codable

Example 5.3.19– Codable

**Chapter 6: Congruences**

Example 6.3.15– Codable

Example 6.4.5– Codable

Example 6.2.5– Codable

Example 6.1.5– Codable

Example 6.1.6– Codable