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Chapter 2

Classical Cryptography

- 2.1 Evaluate the following:
 - (a) 7503 mod 81.

Answer: $7503 \mod 81 = 51$.

(b) (−7503) mod 81.

Answer: $(-7503) \mod 81 - 45$.

(c) 81 mod 7503.

Answer: 81 mod 7503 = 81.

(d) (−81) mod 7503.

Answer: $(-81) \mod 7503 = 7422$.

2.2 Suppose that a, m > 0, and a ≠ 0 (mod m). Prove that

 $(-a) \mod m = m - (a \mod m).$

Answer: We have a = qm + r, where $1 \le r \le m - 1$ and $r = a \mod m$. Then -a = -(q + 1)m + (m - r), where $1 \le m - r \le m - 1$. Therefore $(-a) \mod m - m - r = m - (a \mod m)$.

2.3 Prove that a mod m = b mod m if and only if a ≡ b (mod m).

Answer: $a \mod m = b \mod m$ implies that $a = q_1m + r$ and $b = q_2m + r$, where $0 \le r \le m - 1$. Then $a - b = (q_1 - q_2)m$, so $a \equiv b \pmod m$. Conversely, suppose $a \equiv b \pmod m$. Then a - b = qm. Let $r = a \mod m$. Then $a = q_1m + r$ for some q_1 , and hence $b = a - qm = (q_1 - q)m + r$, so $b \mod m = r$.

2.4 Prove that a mod m = a − [# | m, where | x | = max{y ∈ Z : y ≤ x}.

Answer: $(a-m+1)/m \le \lfloor \frac{a}{m} \rfloor \le a/m$, so $a-m+1 \le m \lfloor \frac{a}{m} \rfloor \le a$, and hence $0 \le a - \lfloor \frac{a}{m} \rfloor m \le m-1$.

2.5 Use exhaustive key search to decrypt the following ciphertext, which was encrypted using a Shift Cipher:

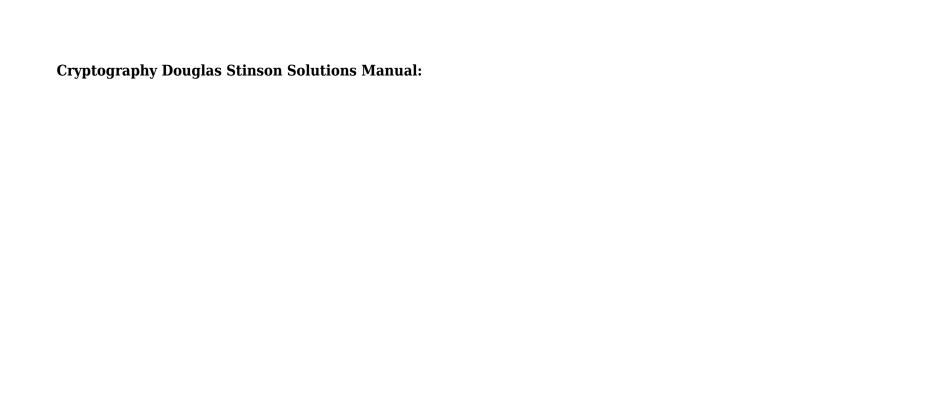
BEEAKFYDJXUQYHYJIQRYHTYJIQFBQDUYJIIKFUHCQD.

Answer: The key is 16, and the plaintext is the following:

Look, up in the air, it's a bird, it's a plane, it's Superman!

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- 1. Understanding the eBook Cryptography Douglas Stinson Solutions Manual
 - The Rise of Digital Reading Cryptography Douglas Stinson Solutions Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Cryptography Douglas Stinson Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - $\circ\,$ Features to Look for in an Cryptography Douglas Stinson Solutions Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Cryptography Douglas Stinson Solutions Manual
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 - Cryptography Douglas Stinson Solutions Manual User Reviews and Ratings
 - Cryptography Douglas Stinson Solutions Manual and Bestseller Lists
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 - Highlighting and Note-Taking Cryptography Douglas Stinson Solutions Manual
 - Interactive Elements Cryptography Douglas Stinson Solutions Manual
- 8. Staying Engaged with Cryptography Douglas Stinson Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cryptography Douglas Stinson Solutions Manual
- 9. Balancing eBooks and Physical Books Cryptography Douglas Stinson Solutions Manual
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Cryptography Douglas Stinson Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Cryptography Douglas Stinson Solutions Manual
 - Setting Reading Goals Cryptography Douglas Stinson Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cryptography Douglas Stinson Solutions Manual
 - Fact-Checking eBook Content of Cryptography Douglas Stinson Solutions 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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