

Chapter 2

Classical Cryptography

2.1 Evaluate the following:

(a) $7503 \bmod 81$.

Answer: $7503 \bmod 81 = 51$.

(b) $(-7503) \bmod 81$.

Answer: $(-7503) \bmod 81 = 45$.

(c) $81 \bmod 7503$.

Answer: $81 \bmod 7503 = 81$.

(d) $(-81) \bmod 7503$.

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

2.2 Suppose that $a, m > 0$, and $a \not\equiv 0 \pmod{m}$. Prove that

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

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

2.3 Prove that $a \bmod m = b \bmod m$ if and only if $a \equiv b \pmod{m}$.

Answer: $a \bmod m = b \bmod m$ implies that $a = q_1m + r$ and $b = q_2m + r$, where $0 \leq r \leq m - 1$. 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 $r = a \bmod m$. Then $a = q_1m + r$ for some q_1 , and hence $b = a - qm = (q_1 - q)m + r$, so $b \bmod m = r$.

2.4 Prove that $a \bmod m = a - \lfloor \frac{a}{m} \rfloor m$, where $\lfloor x \rfloor = \max\{y \in \mathbb{Z} : y \leq x\}$.

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

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

BEEAKFYDJXUQYHYJICQYHTYJICQFBQDUYJIIKUFUSCQD.

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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