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- Decrypted the following statement using Base64 techniques as follows:

Encoded	Decoded
SGVsbG8hIFRoZXNjb2F0eSBzZW50ZXQgbWVzc2FnZS4=	Hello! This is a secret message
RkxBR3tZMHVfY2FuX2RlY29kZV90aGlzfQ==	FLAG{Y0u_can_decode_this}
VGhpcyBpcyBhIHRLc3Qgb2YgZW1lcmdlbmN5IG1lc3NhZ2VzLiBEZWVnZGUgdGhpcyE=	This is a test of emergency messages. Decode this!

- Analyze the content of the extracted texts in terms of topic and linguistic style. What is the main message?
 - Hello! This is a secret message
 - A short message telling the reader it is confidential.
 - Simple and direct, using a short informative sentence.
 - FLAG{Y0u_can_decode_this}
 - A challenge message often used in cybersecurity competitions (CTFs).
 - Short, contains "FLAG" indicating it is part of a challenge.
 - This is a test of emergency messages. Decode this!
 - A test message for emergency situations.
 - Somewhat formal, encourages the reader to decode.
- Suggest ways to improve the security of the encryption used in these texts.**
 - Use Strong Cryptographic Encryption algorithm.
 - Implement Secure Key Management
 - To ensure message integrity, use cryptographic hashing
 - Consider steganography for covert messaging.
 - Combine multiple security techniques for better protection.