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Block Cipher Modes of Operation

Electronic Codebook (ECB)

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ECB-TDES (Encryption)

Key1 is

01234567 89ABCDEF

Key2 is

23456789 ABCDEF01

Key3 is

456789AB CDEF0123

Plaintext is

6BC1BEE2 2E409F96 E93D7E11 7393172A

AE2D8A57 1E03AC9C 9EB76FAC 45AF8E51

Block #1

Blockin 6BC1BEE2 2E409F96

Blockout 714772F3 39841D34

Block #2

Blockin E93D7E11 7393172A

Blockout 267FCC4B D2949CC3

Block #3

Blockin AE2D8A57 1E03AC9C

Blockout EE11C22A 576A3038

Block #4

Blockin 9EB76FAC 45AF8E51

Blockout 76183F99 C0B6DE87

Ciphertext is

714772F3 39841D34 267FCC4B D2949CC3

EE11C22A 576A3038 76183F99 C0B6DE87

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ECB-TDES (Decryption)

Key1 is
01234567 89ABCDEF
Key2 is
23456789 ABCDEF01
Key3 is
456789AB CDEF0123

Ciphertext is
714772F3 39841D34 267FCC4B D2949CC3
EE11C22A 576A3038 76183F99 C0B6DE87

Block #1
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Blockout 6BC1BEE2 2E409F96

Block #2
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Blockout E93D7E11 7393172A

Block #3
Blockin EE11C22A 576A3038
Blockout AE2D8A57 1E03AC9C

Block #4
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Blockout 9EB76FAC 45AF8E51

Plaintext is
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Block #1
Blockin 6BC1BEE2 2E409F96
Blockout 06EDE3D8 2884090A

Block #2
Blockin E93D7E11 7393172A
Blockout FF322C19 F0518486

Block #3
Blockin AE2D8A57 1E03AC9C
Blockout 73057697 2A666E58

Block #4
Blockin 9EB76FAC 45AF8E51
Blockout B6C88CF1 07340D3D

Ciphertext is
06EDE3D8 2884090A FF322C19 F0518486
73057697 2A666E58 B6C88CF1 07340D3D

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