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Final Exam

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1. Let (E, D) be an authenticated encryption system built by combining

1 / 1 point

a CPA-secure symmetric cipher and a MAC. The system is combined

with an error-correction code to correct random transmission errors.

In what order should encryption and error correction be applied?

☐ The order does not matter -- neither one can correct errors.

☐ Apply the error correction code and then encrypt the result.

☒ Encrypt and then apply the error correction code.

☐ The order does not matter -- either one is fine.



Correct

That is correct. The error correction code will do its best

to correct random errors after which the MAC in the ciphertext will be checked

to ensure no other errors remains.

2. Let X be a uniform random variable over the set $\{0, 1\}^n$.

1 / 1 point