

通过条件 80% 或更高

	PX-5页
坚持学习	100%

770b80259ec33beb2561358a9f2dc617e46218c0a53cbeca695ae45faa8952aa0e311bde9d4e01726d3184c34451

总分	leek 2 - Programming Assignment [Optional]	
	this project you will implement two encryption/decryption systems, one using AES in CBC mode and another using AES in asset the 16-byte encryption IV is chosen at random and is <i>prepended</i> to the ciphertext.	counter mode (CTR). Imløb ያի
W	or CBC encryption we use the PKCS5 padding scheme discussed <u>in the lecture (</u> 14:04). While we ask that you implement bo e will only test the decryption function. In the following questions you are given an AES key and a ciphertext (both are <u>hex-</u> ecover the plaintext and enter it in the input boxes provided below.	
	or an implementation of AES you may use an existing crypto library such as <u>PyCrypto (</u> Python), <u>Crypto++ (</u> C++), or any other AES functions, we ask that as a learning experience you implement CBC and CTR modes yourself.	. While it is fine to use the built-
Q	uestion 1	
•	CBC key: 140b41b22a29beb4061bda66b6747e14	
• CBC Ciphertext 1: 4ca00ff4c898d61e1edbf1800618fb2828a226d160dad07883d04e008a7897ee2e4b7465d5290d0c0e6c6822236e1daafb94ffe0c5da05d9476be028ad7c1d81		
	Basic CBC mode encryption needs padding.	
	✓ 正确	
2.•	CBC key: 140b41b22a29beb4061bda66b6747e14	1/1 🕏
•	CBC Ciphertext 2: 5b68629feb8606f9a6667670b75b38a5b4832d0f26e1ab7da33249de7d4afc48e713ac646ace36e872ad5fb8a512428a6e213	364b0c374df45503473c5242a253
	Our implementation uses rand. IV	
	✓ 正确	
3.•	CTR key: 36f18357be4dbd77f050515c73fcf9f2	1/1 分
•	CTR Ciphertext 1: 69dda8455c7dd4254bf353b773304eec0ec7702330098ce7f7520d1cbbb20fc388d1b0adb5054dbd7370849dbf0b88d393f2	52e764f1f5f7ad97ef79d59ce29f5f51eeca32eabedd9afa9329
	CTR mode lets you build a stream cipher from a block cipher.	
	✓ 正确	
4.	• CTR key: 36f18357be4dbd77f050515c73fcf9f2	1/1 分
	CTR Ciphertext 2:	

Always avoid the two time pad!