Assignment Project Exam Help
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Assignment

Programming project: Simplified DES, meet-in-the-middle attack

30 points

Using the encryption and decryption methods you wrote for SDES, write a program called **SDESMitm.java** or **sdesmitm.py** that will carry out a meet-in-the-middle attack on 2SDES. This system encrypts a plaintext first with one key and then again with a different key. Please review the attack in the notes and the textbook. Recall that this is a known-plaintext attack. I will provide plaintext/ciphertext pairs. Based on those, you should be able to recover the two 9-bit keys.

Write the program so that it can be run from the command line taking four parameters:

- 1. plaintext 1 integer
- 2. ciphertext 1 integer
- 3. plaintext 2 integer
- 4. ciphertext 2 integer

Two pairs are needed because the first plaintext/ciphertext pair will let you create a shorter list of key pairs and the second plaintext/ciphertext pair will allow you to narrow that list down to on key pair. When run, the program should print the two keys:

Submission instructions://powcoder.com

Please make sure your name appears in comments at the top of the source file and that the program file is given the name I specifed above. Not doing either of these will cost points. Submit the .java or .py file (not zipped!) to the D2L submission folder provide for the Chat powcoder

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