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Assignment 4 Corrected

Programming project: Simplified DES, part 1

30 points

In either Jave >= 8 or Python >= 3.7 implement one round of encryption of the textbook's simplified DES scheme. Write a program called **SDESRound.java** or **sdesround.py** so that it contains:

- a method called **encryptRound (plaintext**, **subkey)** where the plaintext and the subkey are both integers. As specified in section 7.2 of the text, a plaintext contains 12 bits and, so is in the range 0 to 4095, and the subkey contains 8 bits, and so in the range 0 to 255. This method performs one round of the simplified DES scheme and returns the ciphertext after that round.
- a main method that takes a plaintext integer and and a subkey integer as command line parameters, calls the encryption method, and prints the resulting ciphertext. I will run your code as follows:
 - python sdesround.py 128 250
 - java SDESRound 128 250

Here is an updated table with sample inputs and the expected output.

Plaintext Subkey Ciphertext	Plaintext	Subkev	Ciphertext
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4095

4095

4095

85

170

4067

4047

4062

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0 644	J			T

0	0	44	J	
0	85	https	://powcoder.com	
0	170	48	•	
0	255	Add	WeChat powcode	r
1365	0	1390		
1365	85	1379		
1365	170	1360		
1365	255	1398		
2730	0	2697		
2730	85	2735		
2730	170	2716		
2730	255	2705		

Submission instructions

Please make sure your name appears in comments at the top of the source file. Submit the .java or .py file (not zipped!) to the D2L submission folder provided for it.

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