Please complete the following questions in your assignment10.py script and upload it here.

1. A game with the following rules: Two students start the game with n pieces of beans. Both students take turns to take beans - each student take at most m pieces a time, and at least 1 piece a time. The student who take the last piece(s) loses the game.

Please write a function to return the number of pieces the first player should take. If the first player faces a losing game, please return 0.

You may define the function as:

def myFirstMove(m,n):

Please test your function with at least 3 different calls.

2. Please create a students.txt file with the following fake names -

Kimberely Matthias;1; F  
Darron Mouser;2;F  
Garret Emrich;3;M  
Li Townsel;4;F  
Janiece Devera;5;F  
Wyatt Kulesza;6;M  
Sana Pickford;7;F  
Pearlene Jeanlouis;8;M  
Smith Jason;9;M  
Emch Mary;10;F  
Band Kohn;11;M  
Martin Haiwa;12;F

Make sure to save the students.txt with your assignment10.py together in the same folder. Close the file when complete.  
  
  
3. Please encrypt the students.txt file and save it as students\_secret.txt.   
You may use two random integers (5-10) to encrypt the file. Odd number characters will be encrypted with the first random integer, and even number character will be encrypted by the second random number. (For example, if you have a key=69, you will encrypt "John" - J and h with 6; o and n with 9)  
Also save the key at the end of the file (at a new line).  
Reminder - to read a file, you may use readline, or readlines. readlines will read all lines to a string list variable. Please close both files when complete.  
  
4. Please decrypt the students\_secret.txt file and save it as students\_clear.txt. Please close both files when complete.  
  
5. Please pick two random lucky students - one from female group, and another from the male group. Please print out the names of both students.  
  
6. Please open the students.txt file and use a while loop to pick lucky students from the list of students.txt, until all students become lucky at least once. Please print out the luckiest female student and the luckiest male student. If there is/are tie(s), please print out all tie(s).