

Week 1: Day 3 - Exercises

(recap)

1. Sequential squares: Write a script that takes a number and prints the sum of the squares of all integers less than that number. Bonus points for doing it in one line!
2. Lowercase checker: Write a script that checks if there are lowercase characters in a string. Then print only the lowercase characters in the string.

(functions)

1. Mean calculator: Write a function that calculates the mean of a list of numbers.
2. String case reverser: Write a function that returns a string input in reversed case.
3. Factorial calculator: Write a function that returns the factorial of any number.
4. Mean calculator 2.0: Write 3 functions, each calculating one of the following:
 - arithmetic mean
 - geometric mean
 - harmonic mean

Then write one function that unites them into one and allows for the user to choose which mean they want to use. Set a default using something of the form
`def function(param1, param2='default')`