

Announcements

1. No homework for the next week.
2. In-person midterm exam is on Oct 19 (same time/location as lectures).
 1. Includes CH1-CH6 ZyBook (participation/challenge activities), lab exercises and homework assignments.
 2. One-page double sided cheat sheet is allowed.
 3. Format: Pen & Paper (no computers!).
3. Today's lecture: Coding practice.

Print Multiples of 5

Write a program that reads in a positive integer value from the keyboard and uses a for loop to print the multiples of 5 that are less than or equal to the number that was entered.

For example:

Enter a positive integer: 22

5

10

15

20

Calculate Average

Write a function called `calculate_average` that receives a list of integer values and calculates the average of the values in the list. Your function should return 0 if there are no elements in the list.

Compare Lists

Write a function called `compare_lists` that receives two lists of integer values. The function should return `true` if all of the elements in the first list are contained in the second list (but not necessarily in the same order).

Add Spaces

Write a function called `add_spaces` that takes a string as input and uses a loop to print each character of the string on the same line with 3 spaces between each letter.

For example:

C o m p u t e r

List to String

Write a function called `list_to_string`, that takes a list as a parameter and returns a string with each element of the list on its own line.

For example:

khoury

college

Tuple to List

Write a function called `convert_tuple` that takes a tuple as a parameter and returns a list that contains all of the same elements in the same order.

Note: Tuple is faster than List!

Tuple: (1,3,5)

List: [1,3,5]

Looping over a sequence in reverse

Prints a list that is ordered alphabetically, then prints the same list in reverse order.

For example:

Biffle | Bowyer | Busch | Gordon | Patrick |

Printing in reverse:

Patrick | Gordon | Busch | Bowyer | Biffle |

Brute Force Equation Solver

Given integer coefficients of two linear equations with variables x and y , use brute force to find an integer solution for x and y in the range -10 to 10.

For example:

Ex: $8x + 7y = 38$ and $3x - 5y = -1$ have a solution $x = 3, y = 2$