

Lists II

Parallel lists

Parallel lists are two or more lists of the same length where there is a relationship between `list1[p]` and `list2[p]` (for any index/position `p`.)

0

1

2

"hello"

"my"

"friend"

"ahoy"

"me"

"matey"

Reading files into lists

- Don't read a file into a list more than once per program.

More list functions

`list_variable.index(item)`

- Searches a list left-to-right for item, returns position where found.
- Crashes if not found. 😞
- No such function **find** like there is for strings.

Write a function that converts three ints representing a month, day, and year into a string.

Ex: `date_conversion(7, 29, 1982)`
returns "July 29, 1982"

Write a function that converts a date string into a list of three ints representing a month, day, and year.

Ex: `date_conversion2("July 29, 1982")`
returns `[7, 29, 1982]`

- Counting, filtering, and transforming lists work exactly the same way as doing these operations on strings.

- Copy roster.txt from my public folder.
- Write a function called read_roster() that opens the file, reads all the names into a list, and returns the list.
- Write a function called count_initial_vowels that takes a list of names and returns the number of people in class whose name starts with a vowel.
- Write a function called filter_one_vowel that takes a list of names and returns a list of the people in class who only have one vowel in their name.