

String and List Manipulation Problems

Easy

1. Sort by Hindi Names

Sort the `veggies` list based on the Hindi names while keeping the original structure intact.

2. Extract Only Hindi Names

Create a new list that contains only the Hindi names of the vegetables.

3. Extract Only English Names

Create a new list that contains only the English names of the vegetables.

4. Find the Longest and Shortest Vegetable Names

Identify and print the longest and shortest vegetable names (English and Hindi separately).

5. Reverse Each Vegetable Name

Print a new list where each vegetable name (both English and Hindi) is reversed.

Medium

6. Find Vegetables Containing a Given Letter

Write a function that takes a letter as input and returns all vegetable names (English and Hindi) containing that letter.

7. Count the Occurrences of Each Letter

Create a dictionary where each letter (a-z) maps to the number of times it appears across all vegetable names.

8. Create an Abbreviation List

Generate a list of abbreviations where each abbreviation consists of the first letter of each word in the vegetable name.

9. Extract Vegetables with More than 10 Characters

Find and print all vegetable names (either English or Hindi) that contain more than 10 characters.

10. Split and Reformat Names

Transform the `veggies` list so that each item is stored as a dictionary with keys `English` and `Hindi`.

Hard

11. Find the Most Common Letter

Determine which letter appears most frequently in all vegetable names.

12. Sort the List Based on the Length of Hindi Names

Sort the list based on the length of Hindi names while maintaining the original English names.

13. Implement a Custom Search Function

Write a function that takes a search term and returns all matching vegetables where the term is a substring of either the English or Hindi name.

14. Find Anagrams in the List

Check if any vegetable names (English or Hindi) are anagrams of each other and print the pairs.

15. Generate All Possible Slices

For each vegetable name, generate and print all possible contiguous substrings (slices).