

Q1. Input an integer n. Input n number of strings and create a list of strings. Create a dictionary where key is an alphabet, and value is the number of times this alphabet is present in all the strings in the list (Not case sensitive, i.e count both uppercase and lowercase).

For example: If the list is : ["Formula", "Manipal"], then the dictionary output would look something like: {'f': 1, 'o':1, 'a': 3 ...

Q2. Create a class and create a function inside this class for selection sort of a list of strings. Input a list of string similar to Q1 and call this sort function. Print the output.

Q3. Create a class and create a function inside this class for binary search in a list of strings. Input a list similar to Q1, and use the sort function from the class created in Q2 to sort the list. Input a string, and perform binary search on this string.