

1. Store a matrix of order $m \times n$ as a list of lists. Write a list comprehension to find the transpose of the matrix.

Input: `L = [[2, 3, 5, 1, 8], [4, 1, 2, 6, 1], [6, 4, 5, 7, 9]]`

Expected Output: `[[2, 4, 6], [3, 1, 4], [5, 2, 5], [1, 6, 7], [8, 1, 9]]`

2. Get a string as input from user. Create a dictionary containing for each character in the string, how many times that character appears in the string using dictionary comprehension

Input: `s = "string is a string is a string"`

Expected Output: `{'s':5, 't':3, 'r':3, 'i':5, 'n':3, 'g':3, ' ':6, 'a':2 }`