Question1

Create a function that takes three integer arguments (a, b, c) and returns the amount of integers which are of equal value.

**Examples**

equal(3, 4, 3) ➞ 2

equal(1, 1, 1) ➞ 3

equal(3, 4, 1) ➞ 0

**Notes**

Your function must return 0, 2 or 3.

Ans : def equal(a,b,c):

num = 0

if a == b and a == c :

num = 3

elif a == b or a == c :

num = 2

else:

num = 0

return num

equal(3, 4, 3)

Out[2]:

2

Question2

Write a function that converts a **dictionary** into a **list** of keys-values **tuples**.

### Examples

dict\_to\_list({

"D": 1,

"B": 2,

"C": 3

}) ➞ [("B", 2), ("C", 3), ("D", 1)]

dict\_to\_list({

"likes": 2,

"dislikes": 3,

"followers": 10

}) ➞ [("dislikes", 3), ("followers", 10), ("likes", 2)]

### Notes

Return the elements in the list in alphabetical order.

Ans : def dict\_to\_list(d):

return list(d.items())

Out[6]:

[('D', 1), ('B', 2), ('C', 3)]

Question3

Write a function that creates a dictionary with each **(key, value)** pair being the **(lower case, upper case)** versions of a letter, respectively.

### Examples

mapping(["p", "s"]) ➞ { "p": "P", "s": "S" }

mapping(["a", "b", "c"]) ➞ { "a": "A", "b": "B", "c": "C" }

mapping(["a", "v", "y", "z"]) ➞ { "a": "A", "v": "V", "y": "Y", "z": "Z" }

### Notes

All of the letters in the input list will always be lowercase.

Ans : def mapping(lst):

return {v.lower():v.upper() for v in lst}

Out[9]:

{'p': 'P', 's': 'S'}

Question4

Write a function, that replaces all vowels in a string with a specified vowel.

### Examples

vow\_replace("apples and bananas", "u") ➞ "upplus und bununus"

vow\_replace("cheese casserole", "o") ➞ "chooso cossorolo"

vow\_replace("stuffed jalapeno poppers", "e") ➞ "steffed jelepene peppers"

### Notes

All words will be lowercase. Y is not considered a vowel.

Ans : def vow\_replace(s,ch):

vowel ='AEIOUaeiuo'

s1 = []

for i in range(len(s)):

if s[i] in vowel:

s1.append(ch)

else:

s1.append(s[i])

return ''.join((s1))

vow\_replace('apples and bananas', 'u')

'upplus und bununus'

Question5

Create a function that takes a string as input and capitalizes a letter if its ASCII code is even and returns its lower case version if its ASCII code is odd.

### Examples

ascii\_capitalize("to be or not to be!") ➞ "To Be oR NoT To Be!"

ascii\_capitalize("THE LITTLE MERMAID") ➞ "THe LiTTLe meRmaiD"

ascii\_capitalize("Oh what a beautiful morning.") ➞ "oH wHaT a BeauTiFuL moRNiNg."

Ans : def ascii\_capitalize(s):

s1 = []

for i in range(len(s)):

if ord(s[i]) % 2 == 0:

s1.append(s[i].upper())

else:

s1.append(s[i].lower())

return "".join((s1))

Out[18]:

'To Be oR NoT To Be!'