8.1

s. No. egister No.: 230401023

20/5/2029 Dater

Name: CAROLINE

## Binary String

here is a simple task for you, Given string str. Your task is to check whether it oders nerve string or not by using python set.

lost = input (" ")

a = 101'

count = 0

for char in lect:

if char not in a:

count =1

break

if (count!=0):

Print ("No")

else:

Print ("Yes")

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## Check Pair

given a tuple and a positive integer k, the task is to find the count of distinct pairs in Given a whose sum is equal to K.

to tuple (map Cint, input (), split (','))) | int (input ())
| s = set (1)

count = 0

for n in S: if K-x ins:

count += 1

puint ( result).

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# DNA Sequence

pNA sequence is composed of a series of nucleotides abbreviated as 'A', C', C',

For example, "ACGAATTCCG" is a DNA sequence.

When studying DNA, it is useful to identify repeated sequences within the DNA.

strings that represents a DNA sequences within the DNA.

strings that represents a DNA sequence, return all the 10-letter-(iven a surnes (substrings) that occur more than once in a DNA molecule. You may the answer in any order. long seque answer in any order.

S= input ()

substring - counts = {}

for i in range (len(s)-9).

substring = S [i;i+10]

substring - counts [substring] = substring-counts. get (substring, 0) +1

repeated - Substrings = [substring for substring, count in substering - counts, etems () if count > 1]

for substring in repeated - substrings:

print ( substiting)

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# Print repeated no

array of integers nums containing n + 1 integers where each integer is in the only one repeated number. Solve the problem using set. only one repeated number in nums,

nums = list (map (int, criput (). split ()))

pum set = set ()

for num in nums!

if num in noum\_set!

puint (num)

break

else:

num set. add (num)

8.5 Ex. No.

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#### Remove repeated

Write a program to eliminate the common elements in the given 2 arrays and print only the non-repeating elements and the total number of such non-repeating elements.

#### Input Format:

The first line contains space-separated values, denoting the size of the two arrays in integer format respectively.

The next two lines contain the space-separated integer arrays to be compared.

Size 1, size 2 = map (int input (). split ()) all = set (map (int, chput (), split())) arr 2 = set (map Cint, input (). split ())) non-repeating = sorted (list ((arr1-arr2)) Cars 2 - ars (1))

of non-expeating: Pount ( non-sepeating) Print (len(non-repeating))

else: print ("NO SUCH ELEMENTS") Ex. No.

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# Malfunctioning Keyboard

There is a malfunctioning keyboard where some letter keys do not work. All other keys

Given a string text of words separated by a single space (no leading or trailing spaces) and a string brokenLetters of all distinct letter keys that are broken, return the number of words in text you can fully type using this keyboard.

tost = input ()

brokenLetters = input ()

words = text-split()

valid \_ words = 0

for word in words:

if any (letter in BrokenLetters for letter in word):

continue

else.

valid = words + = 1

Print ( valid - words)

Ex. No.

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### American keyboard

(iven an array of strings words, return the words that can be typed using letters of the (included an only one row of American keyboard like the image below. in the American keyboard:

the first row consists of the characters "qwertyuiop",

the second row consists of the characters "asdfghjkl", and

the third row consists of the characters "zxcvbnm".

nowl-set ('querty map')

now2 = set ('ardfghj kl')

grows = set ('zxcvbnm')

num\_words = int (input ())

found = Falso

for - in range (num-words):

word = input ()

word\_lower = work.lower()

if all (chou in slow) for char in work\_lower) or \

all (char in now 2 for char in work-lower) or 1

all (char in row3 for char in work-lower)!

print (word)

found = True

if not found!

Print ("no words")

Byrn