<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Experiments based on Tuples, Sets and its operations</u> / <u>Week7 Coding</u>

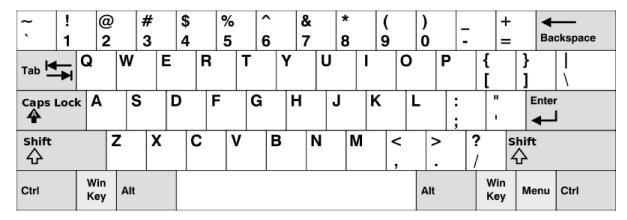
Started on	Tuesday, 21 May 2024, 11:36 PM
State	Finished
Completed on	Wednesday, 22 May 2024, 12:00 AM
Time taken	23 mins 52 secs
Marks	5.00/5.00
Grade	100.00 out of 100.00

```
Question 1
Correct
Mark 1.00 out of 1.00
```

Given an array of <u>strings</u> words, return the words that can be typed using letters of the alphabet on 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".



Example 1:

```
Input: words = ["Hello","Alaska","Dad","Peace"]
Output: ["Alaska","Dad"]
```

Example 2:

```
Input: words = ["omk"]
Output: []
```

Example 3:

```
Input: words = ["adsdf","sfd"]
Output: ["adsdf","sfd"]
```

For example:

Input	Result
4	Alaska
Hello	Dad
Alaska	
Dad	
Peace	
2	adsfd
adsfd	afd
afd	

```
print("\n".join(result))
else:
    print("No words")
```

	Input	Expected	Got	
~	4 Hello Alaska Dad Peace	Alaska Dad	Alaska Dad	~
~	1 omk	No words	No words	~
~	2 adsfd afd	adsfd afd	adsfd afd	~

Correct

Marks for this submission: 1.00/1.00.

1.

Question **2**Correct Mark 1.00 out of 1.00

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

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.

Example 1:

```
Input: text = "hello world", brokenLetters = "ad"
```

Output:

-

Explanation: We cannot type "world" because the 'd' key is broken.

For example:

Input	Result
hello world ad	1
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```
1 A = input()
 2 B = input()
 3 C = set(B.lower() + B.upper())
 4 words = A.split()
 5
   D = 0
6 ▼ for word in words:
7 🔻
        if any(letter in C for letter in word):
8
            continue
        else:
9 ▼
            D += 1
10
   print(D)
11
12
13
14
15
16
17
18
19
20
```

	Input	Expected	Got	
~	hello world ad	1	1	~
~	Welcome to REC e	1	1	~
~	Faculty Upskilling in Python Programming ak	2	2	~

Correct

Marks for this submission: 1.00/1.00.

```
Question 3
Correct
Mark 1.00 out of 1.00
```

The **DNA sequence** is composed of a series of nucleotides abbreviated as 'A', 'C', 'G', and 'T'.

• For example, "ACGAATTCCG" is a **DNA sequence**.

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

Given a string s that represents a **DNA sequence**, return all the **10-letter-long** sequences (substrings) that occur more than once in a DNA molecule. You may return the answer in **any order**.

Example 1:

```
Input: s = "AAAAACCCCCAAAAAACCCCCCAAAAAGGGTTT"
Output: ["AAAAACCCCC", "CCCCCAAAAA"]
```

Example 2:

```
Input: s = "AAAAAAAAAAA"
Output: ["AAAAAAAAAA"]
```

For example:

Input	Result
AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC CCCCCAAAAA

```
s = input()
 2 A = set()
 3
   B = set()
 4 v for i in range(len(s) - 9):
 5
        C = s[i:i + 10]
        if C in A:
 6 ▼
7
            B.add(C)
8 🔻
        else:
9
            A.add(C)
10 v for seq in B:
        print(seq)
```

	Input	Expected	Got	
~	AAAAACCCCCAAAAAACCCCCCAAAAAAGGGTTT			~
		CCCCCAAAAA	CCCCCAAAAA	

	Input	Expected	Got	
~	АААААААААА	АААААААА	АААААААА	~

Correct

Marks for this submission: 1.00/1.00.

${\it Question}~4$

Correct

Mark 1.00 out of 1.00

Given an array of integers nums containing n + 1 integers where each integer is in the range [1, n] inclusive. There is only **one repeated number** in nums, return this repeated number. Solve the problem using <u>set</u>.

Example 1:

```
Input: nums = [1,3,4,2,2]
```

Output: 2

Example 2:

```
Input: nums = [3,1,3,4,2]
```

Output: 3

For example:

Input	Result
1 3 4 4 2	4

Answer: (penalty regime: 0 %)

 Input
 Expected
 Got

 ✓
 1 3 4 4 2
 4
 4
 ✓

 ✓
 1 2 2 3 4 5 6 7
 2
 2
 ✓

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00.

```
{\sf Question}\, {\bf 5}
Correct
Mark 1.00 out of 1.00
```

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.

Sample Input:

5 4

12865

26810

Sample Output:

1 5 10

3

Sample Input:

5 5

12345

12345

Sample Output:

NO SUCH ELEMENTS

For example:

Input		es	ult
	1	5	10
6 5	3		
10			
		1 6 5 3	

```
1 | size1, size2 = map(int, input().split())
 3 array1 = list(map(int, input().split()))
 4 | array2 = list(map(int, input().split()))
 5 set1 = set(array1)
6
   set2 = set(array2)
7
   A = (set1.symmetric_difference(set2))
8 v if A:
9
        print(*A)
10
        print(len(A))
11 v else:
12
        print("NO SUCH ELEMENTS")
```

	Input	Expected	Got	
~	5 4	1 5 10	1 5 10	~
	12865	3	3	
	2 6 8 10			
~	3 3	11 12	11 12	~
	10 10 10	2	2	
	10 11 12			

Correct

Marks for this submission: 1.00/1.00.

■ Week7_MCQ

Jump to...

Dictionary ►

1.