<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	Friday, 7 June 2024, 6:25 PM
State	Finished
Completed on	Friday, 7 June 2024, 6:56 PM
Time taken	31 mins 25 secs
Marks	4.00/5.00
Grade	80.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

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

Examples:

Input: str = "01010101010"

Output: Yes

Input: str = "REC101"

Output: No

For example:

Input	Result
01010101010	Yes
010101 10101	No

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	01010101010	Yes	Yes	~
~	REC123	No	No	~
~	010101 10101	No	No	~

Passed all tests! <

Correct

```
Question 2
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 %)

```
x=input()
 2
    y=x.split()
   z=list(y)
3
 4
   a=[]
5
   b=[]
 6 v for element in z:
        if element in a:
7 🔻
8
            b.append(element)
9 🔻
        else:
            a.append(element)
10
   c=' '.join(map(str,b))
11
12 print(c)
```

	Input	Expected	Got	
~	1 3 4 4 2	4	4	~
~	1 2 2 3 4 5 6 7	2	2	~

Passed all tests! <

Correct

```
Question 3
Incorrect
Mark 0.00 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

2 6 8 10

Sample Output:

1 5 10

3

Sample Input:

5 5

12345

12345

Sample Output:

NO SUCH ELEMENTS

For example:

Input				Result
5 -	4			1 5 10
1	2 8	6	5	3
2	6 8	3 10)	
5	5			NO SUCH ELEMENTS
1	2 3	3 4	5	
1	2 3	3 4	5	

Answer: (penalty regime: 0 %)

```
a=input()
   s1=input()
 2
3
   s2=input()
   t1=s1.split()
4
5
   t2=s2.split()
6
   x=set(t1)
7
    y=set(t2)
8
   common=x.intersection(y)
9
   z=x.union(y)
10 p=z-common
11
   q=sorted(int(x) for x in p)
   result=' '.join(map(str,q))
12
13 v if len(q)==0:
        print("No Such Elements ")
14
15 v else:
        print(result)
16
17
        print(len(q))
```

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

Your code failed one or more hidden tests.

Your code must pass all tests to earn any marks. Try again.

Incorrect

```
Question 4
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:

1

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

For example:

Input	Result
hello world ad	1
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Answer: (penalty regime: 0 %)

```
a=input()
   b=input()
 2
   x=set()
 3
 4
   y=set()
 5 v for letter in a:
        x.add(letter)
 6
 7 v for letter in b:
       y.add(letter)
8
 9
    z=0
10 v for element in x:
11 🔻
        if element in y:
12
            z+=1
   print(z)
```

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

Passed all tests! <

Correct

```
Question 5
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 = "AAAAACCCCCCAAAAACCCCCCAAAAAGGGTTT"
Output: ["AAAAACCCCC","CCCCCAAAAA"]
```

Example 2:

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

For example:

Input	Result
AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC CCCCCAAAAA

Answer: (penalty regime: 0 %)

```
s=input()
   substring_counts={}
2
3
   for i in range(len(s)-9):
4
       substring=s[i:i+10]
       substring\_counts[substring] = substring\_counts.get(substring,0) + 1
5
   repeated_substrings=[substring for substring, count in substring_counts.items() if count>1]
6
7
   for substring in repeated_substrings:
       print(substring)
8
9
```

	Input	Expected	Got	
~	AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC CCCCCAAAAA	AAAAACCCCC CCCCCAAAAA	~
~	АААААААААА	АААААААА	АААААААА	~

Passed all tests! 🗸

Correct

■ Week7_MCQ

Jump to...

Dictionary ►