<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	Wednesday, 29 May 2024, 12:53 PM
State	Finished
Completed on	Wednesday, 29 May 2024, 10:14 PM
Time taken	9 hours 20 mins
Marks	5.00/5.00
Grade	100.00 out of 100.00

```
Question 1
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	Result
5 4	1 5 10
1 2 8 6 5	3
2 6 8 10	
5 5	NO SUCH ELEMENTS
1 2 3 4 5	
1 2 3 4 5	

Answer: (penalty regime: 0 %)

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

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

	Input	Expected	Got	
~	3 3 10 10 10 10 11 12	11 12 2	11 12 2	~
~	5 5 1 2 3 4 5 1 2 3 4 5	NO SUCH ELEMENTS	NO SUCH ELEMENTS	~

Passed all tests! 🗸

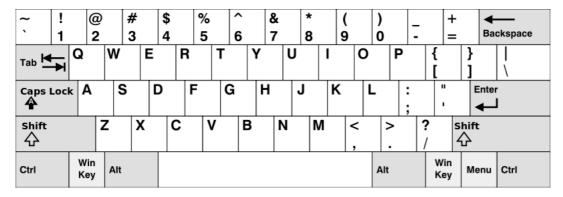
Correct
Marks for this submission: 1.00/1.00.

```
Question 2
Correct
Mark 1.00 out of 1.00
```

Given an array of strings 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 Hello	Alaska
Alaska Dad	
Peace	
2 adsfd afd	adsfd afd

Answer: (penalty regime: 0 %)

```
x=int(input())
    y=[]
 3
    for i in range (x):
4
        str=input()
 5
        y.append(str)
    a=set("qwertyuiop")
    b=set("asdfghjkl")
    c=set('zxcvbnm')
 8
 9
    ans=[]
10
     for j in y:
11
        i=j.lower()
12
        if set(i)<=a or set(i)<=b or set(i)<=c:</pre>
            ans.append(j)
13
    if len(ans)==0:
14
15
        print("No words")
16
     else:
17
        for i in ans:
18
            print(i)
```

	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	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

```
Question 3

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()
    y=x.split()
3
   z=list(y)
4
   a=[]
   b=[]
6 v for element in z:
7
        if element in a:
8
           b.append(element)
9
           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

Marks for this submission: 1.00/1.00.

```
Question 4
Correct
Mark 1.00 out of 1.00
```

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

Examples:

```
Input: t = (5, 6, 5, 7, 7, 8), K = 13

Output: 2

Explanation:

Pairs with sum K( = 13) are {(5, 8), (6, 7), (6, 7)}.

Therefore, distinct pairs with sum K( = 13) are { (5, 8), (6, 7) }.

Therefore, the required output is 2.
```

For example:

Input	Result
1,2,1,2,5	1
1,2	0

Answer: (penalty regime: 0 %)

```
x=input()
    y=int(input())
   a=x.split(',')
t=tuple(int(num) for num in a)
 3
4
    ans=set()
    for i in range(len(t)):
6 ▼
        for j in range(i+1, len(t)):
7 •
             if t[i]+t[j]==y:
8 🕶
9
                 pair=(min(t[i],t[j]), max(t[i],t[j]))
10
                 if pair not in ans:
                     ans.add((t[i],t[j]))
11
    print(len(ans))
12
13
```

	Input	Expected	Got	
~	5,6,5,7,7,8 13	2	2	~
~	1,2,1,2,5	1	1	~
~	1,2	0	0	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

```
Question 5
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
Faculty Upskilling in Python Programming ak	2

Answer: (penalty regime: 0 %)

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

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

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00

■ Week7_MCQ

```
Jump to...
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Dictionary ►