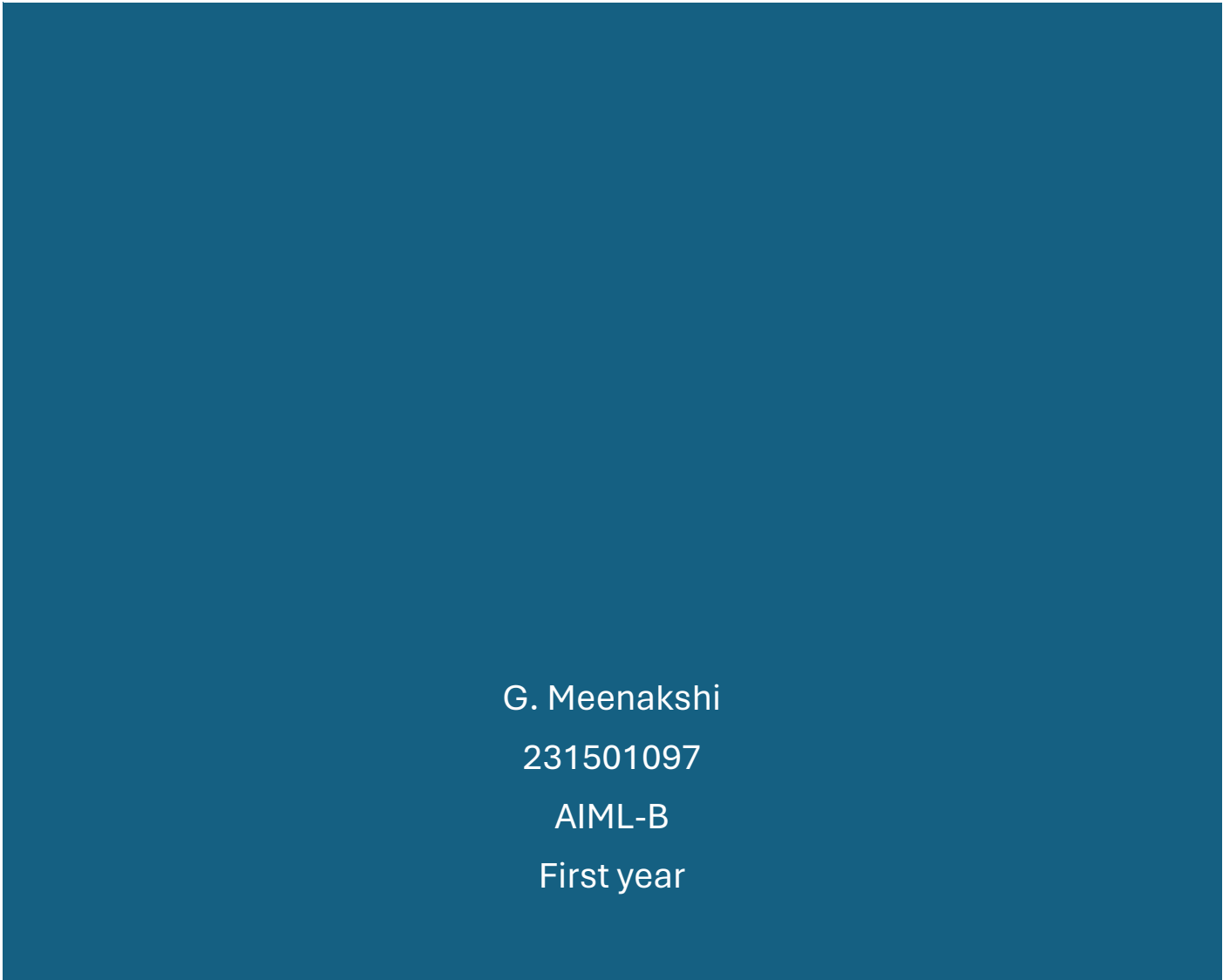


PYTHON MOODLE CODES: WEEK 7 [CS23231]



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AIML-B
First year

Grade 100.00 OUT OF 100.00

Question 1
Correct
Mark 1.00 out of 1.00
Flag question

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"`.

~	!	@	#	\$	%	^	&	*	()	-	=	Backspace
Tab	Q	W	E	R	T	Y	U	I	O	P	{	}	
Caps Lock	A	S	D	F	G	H	J	K	L	:	"	'	Enter
Shift		Z	X	C	V	B	N	M	<	>	?	/	Shift
Ctrl	Win Key	Alt							Alt	Win Key	Menu	Ctrl	

Example 1:

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

Example 2:

Input: words = ["oak"]
Output: []

Example 1:

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

Example 2:

Input: words = ["oak"]
Output: []

Example 3:

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

For example:

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

Answer: (penalty regime: 0 %)

```
1 a=int(input())  
2 word:[]
```

Week7_Coding: Attempt review

118.185.187.137/moodle/mod/quiz/review.php?attempt=101678&cmid=1074

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afd

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 word=[]
3 for i in range(a):
4     q=input()
5     word.append(q)
6 a=set("qwertyuiop")
7 b=set("asdfghjkl")
8 c=set("zxcvbrm")
9 result=[]
10 for j in word:
11     i=j.lower()
12     if set(i)<=a or set(i)<=b or set(i)<=c:
13         result.append(j)
14 if len(result)>0:
15     for i in result:
16         print(i)
17 else:
18     print("No words")
```

	Input	Expected	Got	
✓	4	Alaska	Alaska	✓
	Hello	Dad	Dad	
	Alaska			
	Dad			

32°C Rain showers

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```
18 print("No words")
```

	Input	Expected	Got	
✓	4	Alaska	Alaska	✓
	Hello	Dad	Dad	
	Alaska			
	Dad			
	Peace			
✓	1	No words	No words	✓
	oek			
✓	2	adfsd	adfsd	✓
	adfsd	afd	afd	
	afd			

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2
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

Marks for this submission: 1.00/1.00.

Question 2
Correct
Mark 1.00 out of 1.00
Flag question

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 3	1
1,2 0	0

Answer: (penalty regime: 0 %)

```
1 x=input()
2 y=x.split(',')
3 a=[]
4 for i in range(len(y)):
5     a.append(int(y[i]))
```

Answer: (penalty regime: 0 %)

```
1 x=input()
2 y=x.split(',')
3 a=[]
4 for i in range(len(y)):
5     a.append(int(y[i]))
6 b=tuple(a)
7 c=int(input())
8 z=[]
9 count=0
10 for i in range(len(b)):
11     for j in range(len(b)):
12         if b[i] not in z and b[j] not in z:
13             if b[i]+b[j]==c:
14                 count=count+1
15                 z.append(b[i])
16                 z.append(b[j])
17 print(count)
```

Input	Expected	Got
✓ 5,6,5,7,7,8 13	2	2 ✓
✓ 1,2,1,2,5 3	1	1 ✓
✓ 1,2 0	0	0 ✓

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Question 3
Correct
Mark 1.00 out of 1.00
Flag question

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
1 2 8 6 5
2 6 8 10
Sample Output:
1 5 10
3
Sample Input:
5 5
1 2 3 4 5
1 2 3 4 5
Sample Output:
NO SUCH ELEMENTS

For example:

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Search

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For example:

Input	Result
5 4 1 2 8 6 5 2 6 8 10	1 5 10 3

Answer: (penalty regime: 0 %)

```
1 n1, n2 = map(int, input().split())
2
3 l1 = []
4 l2 = []
5
6 l1 = list(map(int, input().split()))
7 l2 = list(map(int, input().split()))
8
9 op = []
10 for i in range(len(l1)):
11     if l1[i] not in l2:
12         op.append(l1[i])
13
14 for i in range(len(l2)):
15     if l2[i] not in l1:
16         op.append(l2[i])
17
18 if op == []:
19     print("NO SUCH ELEMENTS")
20 else:
21     for j in op:
22         print(j, end=" ")
23
24 print()
25 print(len(op))
```

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```

17
18 if op==[]:
19     print("NO SUCH ELEMENTS")
20 else:
21     for j in op:
22         print(j, end=" ")
23
24     print()
25     print(len(op))

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

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 set.

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 2 2	4

Answer: (penalty regime: 0 %)

```

1 arr=list(map(int, input().split()))
2
3 for i in range(len(arr)):
4     for j in range(len(arr)):
5         if arr[i]==arr[j] and i!=j:
6             got=arr[j]
7             break
8
9 print(got)

```

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Question 4

Correct

Mark 1.00 out of 1.00

Flag question

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 set.

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 2 2	4

Answer: (penalty regime: 0 %)

```

1 arr=list(map(int, input().split()))
2
3 for i in range(len(arr)):
4     for j in range(len(arr)):
5         if arr[i]==arr[j] and i!=j:
6             got=arr[j]
7             break
8
9 print(got)

```

Week7_Coding: Attempt review

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```

7
8
9 print(got)

```

	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.

Week7_Coding: Attempt review

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Question 5

Correct

Mark 1.00 out of 1.00

Flag question

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

- For example, "ACGAATTCGG" 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 = "AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT"`
Output: `["AAAAACCCCC", "CCCCCAAAAA"]`

Example 2:

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

For example:

Input	Result
AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC CCCCCAAAAA

Answer: (penalty regime: 0 %)

Week7_Coding: Attempt review

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Answer: (penalty regime: 0 %)

```
1 s=input()
2 d={}
3 a=[]
4 for i in range(len(s)-9):
5     x=s[i:i+10]
6     if x in d:
7         if d[x]==1:
8             a.append(x)
9             d[x]+=1
10        else:
11            d[x]-1
12 for i in a:
13     print(i)
```

	Input	Expected	Got	
✓	AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC CCCCCAAAAA	AAAAACCCCC CCCCCAAAAA	✓
✓	AAAAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAA	✓

Passed all tests! ✓