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# CS23336-Introduction to Python Programming

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Time taken	1 day 22 hours
Marks	10.00/10.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

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## Question text

Given an array of names of candidates in an election. A candidate name in the array represents a vote cast to the candidate. Print the name of candidates received Max vote. If there is tie, print a lexicographically smaller name.

Examples:

```
Input : votes[] = {"john", "johnny", "jackie",  
                  "johnny", "john", "jackie",  
                  "jamie", "jamie", "john",  
                  "johnny", "jamie", "johnny",  
                  "john"};
```

Output : John

We have four Candidates with name as 'John', 'Johnny', 'jamie', 'jackie'. The candidates John and Johnny get maximum votes. Since John is alphabetically smaller, we print it. Use dictionary to solve the above problem

Sample Input:

10

John

John

Johnny

Jamie

Jamie

Johnny

Jack

Johnny

Johnny

Jackie

Sample Output:

Johnny

Answer:(penalty regime: 0 %)

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```
def find(v):
```

## Feedback

	Input	Expected	Got	
	10 John John Johny Jami e Jami e Johny Jack Johny Johny Jacki e	Johny	Johny	
	6 I da I da I da Ki ruba Ki ruba Ki ruba	I da	I da	

Passed all tests!


Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

 [Flag question](#)

## Question text

Give a dictionary with value lists, sort the keys by summation of values in value list.

Input : test\_dict = {'Gfg' : [6, 7, 4], 'best' : [7, 6, 5]}

Output : {'Gfg': 17, 'best': 18}

Explanation : Sorted by sum, and replaced.

Input : test\_dict = {'Gfg' : [8,8], 'best' : [5,5]}

Output : {'best': 10, 'Gfg': 16}

Explanation : Sorted by sum, and replaced.

Sample Input:

2

Gfg 6 7 4

Best 7 6 5

Sample Output

Gfg 17

Best 18

For example:

Input	Result
2 Gfg 6 7 4 Best 7 6 5	Gfg 17 Best 18

Answer:(penalty regime: 0 %)

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```
n=int(input())
```

## Feedback

	Input	Expected	Got	
	2 Gfg 6 7 4 Best 7 6 5	Gfg 17 Best 18	Gfg 17 Best 18	
	2 Gfg 6 6 Best 5 5	Best 10 Gfg 12	Best 10 Gfg 12	

Passed all tests!


Correct

Marks for this submission: 1.00/1.00.

### Question 3

Correct

Mark 1.00 out of 1.00

 [Flag question](#)

## Question text

You are given a string **word**. A letter is called special if it appears both in lowercase and uppercase in **word**.

Your task is to return the number of special letters in **word**.

## Constraints

- The input string **word** will contain only alphabetic characters (both lowercase and uppercase).
- The solution must utilize a dictionary to determine the number of special letters.
- The function should handle various edge cases, such as strings without any special letters, strings with only lowercase or uppercase letters, and mixed strings.

## Examples

Example 1:

Input: word = "aaAbcBC"

Output: 3

Explanation:

The special characters in `word` are 'a', 'b', and 'c'.

Example 2:

Input: word = "abc"

Output: 0

Explanation:

No character in `word` appears in uppercase.

For example:

Test	Result
<code>print(count_special_letters("AaBbCcDdEe"))</code>	5

Answer:(penalty regime: 0 %)

[Reset answer]

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```
def
```

## Feedback

	Test	Expected	Got	
	<code>print(count_special_letters("AaBbCcDdEe"))</code>	5	5	
	<code>print(count_special_letters("ABCDE"))</code>	0	0	
	<code>print(count_special_letters("abcde"))</code>	0	0	

Passed all tests!


Correct

Marks for this submission: 1.00/1.00.

#### Question 4

Correct

Mark 1.00 out of 1.00

 [Flag question](#)

### Question text

Objective:

Develop a Python program that takes an input string from the user and counts the number of occurrences of each vowel (a, e, i, o, u) in the string. The program should be case-insensitive, meaning it should treat uppercase and lowercase vowels as the same.

Description:

Vowels play a significant role in the English language and other alphabet-based languages. Counting vowels in a given string is a fundamental task that can be applied in various text processing applications, including speech recognition, linguistic research, and text analysis. The objective of this problem is to create a Python script that accurately counts and displays the number of times each vowel appears in a user-provided string.

Program Requirements:

Input:

First line reading String as input, The string can contain any characters, including letters, numbers, and special characters.

Output:

Display the number of occurrences of each vowel in the string.

The output should list each vowel followed by its count.

Example:

Consider the following example for better understanding:

- Input: "Python Programming"
- Output

a = 1  
e = 0  
i = 1  
o = 2  
u = 0

For example:

Input	Result
Hel l o Worl d	a = 0 e = 1 i = 0 o = 2 u = 0
Python	a = 0 e = 0 i = 0 o = 1 u = 0

Answer:(penalty regime: 0 %)

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```
def vowel(s):
```

## Feedback

	Input	Expected	Got	
	Hel l o Worl d	a = 0 e = 1 i = 0 o = 2 u = 0	a = 0 e = 1 i = 0 o = 2 u = 0	



	Input	Expected	Got	
	AEIOU aeio u	a = 2 e = 2 i = 2 o = 2 u = 2	a = 2 e = 2 i = 2 o = 2 u = 2	
	Python	a = 0 e = 0 i = 0 o = 1 u = 0	a = 0 e = 0 i = 0 o = 1 u = 0	
	abcdefghijklmnopqrstuvwxyz	a = 1 e = 1 i = 1 o = 1 u = 1	a = 1 e = 1 i = 1 o = 1 u = 1	
	12345!@#\$\$AEIOU	a = 1 e = 1 i = 1 o = 1 u = 1	a = 1 e = 1 i = 1 o = 1	

	Input	Expected	Got	
			u = 1	

Passed all tests!


Correct

Marks for this submission: 1.00/1.00.

Question 5

Correct

Mark 1.00 out of 1.00

 [Flag question](#)

## Question text

*Given a number, convert it into corresponding alphabet.*

Input	Output
1	A
26	Z
27	AA
676	YZ

Input Format

*Input is an integer*

Output Format

*Print the alphabets*

Constraints

$1 \leq \text{num} \leq 4294967295$

Sample Input 1

26

Sample Output 1

Z

For example:

Test	Result
<code>print(excelNumber(26))</code>	Z

Answer:(penalty regime: 0 %)

[Reset answer]

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Falling back to raw text area.

```
def excelNumber(n):
```

## Feedback

	Test	Expected	Got	
	<code>print(excelNumber(26))</code>	Z	Z	
	<code>print(excelNumber(27))</code>	AA	AA	

Passed all tests!


Correct

Marks for this submission: 1.00/1.00.

### Question 6

Correct

Mark 1.00 out of 1.00

 [Flag question](#)

## Question text

In the game of Scrabble™, each letter has points associated with it. The total score of a word is the sum of the scores of its letters. More common letters are worth fewer points while less common letters are worth more points. The points associated with each letter are shown below:

## Points Letters

1 A, E, I, L, N, O, R, S, T and U

2 D and G

3 B, C, M and P

4 F, H, V, W and Y

5 K

8 J and X

10 Q and Z

Write a program that computes and displays the Scrabble™ score for a word. Create a dictionary that maps from letters to point values. Then use the dictionary to compute the score.

A Scrabble™ board includes some squares that multiply the value of a letter or the value of an entire word. We will ignore these squares in this exercise.

### Sample Input

REC

### Sample Output

REC is worth 5 points.

For example:

Input	Result
REC	REC is worth 5 points.

Answer:(penalty regime: 0 %)

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Falling back to raw text area.

```
a={1:['A','E','I','L'
```

## Feedback

	Input	Expected	Got	
	GOD	GOD is worth 5 points.	GOD is worth 5 points.	
	REC	REC is worth 5 points.	REC is worth 5 points.	

Passed all tests!


Correct

Marks for this submission: 1.00/1.00.

### Question 7

Correct

Mark 1.00 out of 1.00

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## Question text

Create a student dictionary for n students with the student name as key and their test mark assignment mark and lab mark as values. Do the following computations and display the result.

1. Identify the student with the highest average score
2. Identify the student who has the highest Assignment marks
3. Identify the student with the Lowest lab marks
4. Identify the student with the lowest average score

Note:

If more than one student has the same score display all the student names

Sample input:

4

James 67 89 56

Lalith 89 45 45

Ram 89 89 89

Sita 70 70 70

Sample Output:

Ram

James Ram

Lalith

Lalith

For example:

Input	Result
4	Ram
James 67 89 56	James Ram
Lalith 89 45 45	Lalith
Ram 89 89 89	Lalith
Sita 70 70 70	

Answer:(penalty regime: 0 %)

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```
st={} n=int(input())
```

## Feedback

	Input	Expected	Got	
	4	Ram	Ram	
	James 67 89 56	James Ram	James Ram	
	Lalith 89 45 45	Lalith	Lalith	

	Input	Expected	Got	
	Ram 89 89 89 Si ta 70 70 70	Lal i th	Lal i th	
	3 Raj a 95 67 90 Aarav 89 90 90 ShadhanA 95 95 91	ShadhanA ShadhanA Aarav Raj a Raj a	ShadhanA ShadhanA Aarav Raj a Raj a	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

## Question 8

Correct

Mark 1.00 out of 1.00

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## Question text

A sentence is a list of words that are separated by a single space with no leading or trailing spaces. Each word consists of lowercase and uppercase English letters.

A sentence can be shuffled by appending the 1-indexed word position to each word then rearranging the words in the sentence.

For example, the sentence "This is a sentence" can be shuffled as "sentence4 a3 is2 This1" or "is2 sentence4 This1 a3".

Given a shuffled sentence *s* containing no more than 9 words, reconstruct and return the original sentence.

Example 1:

Input:

is2 sentence4 This1 a3

Output:

This is a sentence

Explanation: Sort the words in s to their original positions  
"This1 is2 a3 sentence4", then remove the numbers.

Example 2:

Input:

Myself2 Me1 I4 and3

Output:

Me Myself and I

Explanation: Sort the words in s to their original positions  
"Me1 Myself2 and3 I4", then remove the numbers.

Constraints:

$2 \leq s.length \leq 200$

s consists of lowercase and uppercase English letters, spaces,  
and digits from 1 to 9.

The number of words in s is between 1 and 9.

The words in s are separated by a single space.

s contains no leading or trailing spaces.

Answer:(penalty regime: 0 %)

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```
def fun(): s=input()
```

Feedback



	Input	Expected	Got	
	i s2 sentence4 Thi s1 a3	This i s a sentence	This i s a sentence	

Passed all tests!


Correct

Marks for this submission: 1.00/1.00.

## Question 9

Correct

Mark 1.00 out of 1.00

 [Flag question](#)

## Question text

A company wants to send its quotation secretly to its client. The company decided to encrypt the amount they are sending to their client with some special symbols so that the equation amount will not be revealed to any external person. They used the special symbols !,@,#,\$,%,^,&,\*,>,< for 0,1,2,3,4,5,6,7,8,9 respectively. Write a python code to help the company to convert the amount to special symbols.

(Value rounded off to 2 decimal points)

Input

n: Float data type which reads amount to send

Output

s : String data type which displays symbols

Sample Testcase 1

Input

10000

Output

@!!!!!!

Sample Testcase2

1234.56

Output

@#\$%.^&

For example:

Input	Result
1345. 23	@\$%^ . # \$
15000. 59	@^!!!! . ^<
156789	@^&*><. !!

Answer:(penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
a={ '!' : '0' , '@' : '1' ,  
.. - . -
```

## Feedback

	Input	Expected	Got	
	1345. 23	@\$%^ . # \$	@\$%^ . # \$	
	15000. 59	@^!!!! . ^<	@^!!!! . ^<	
	1234	@#\$%. !!	@#\$%. !!	
	156789	@^&*><. !!	@^&*><. !!	

Passed all tests!


Correct

Marks for this submission: 1.00/1.00.

Question 10

Correct

Mark 1.00 out of 1.00

 [Flag question](#)

## Question text

A sentence is a string of single-space separated words where each word consists only of lowercase letters. A word is uncommon if it appears exactly once in one of the sentences, and does not appear in the other sentence.

Given two sentences  $s_1$  and  $s_2$ , return a list of all the uncommon words. You may return the answer in any order.

Example 1:

Input:  $s_1$  = "this apple is sweet",  $s_2$  = "this apple is sour"

Output: ["sweet", "sour"]

Example 2:

Input:  $s_1$  = "apple apple",  $s_2$  = "banana"

Output: ["banana"]

Constraints:

$1 \leq s_1.length, s_2.length \leq 200$

$s_1$  and  $s_2$  consist of lowercase English letters and spaces.

$s_1$  and  $s_2$  do not have leading or trailing spaces.

All the words in  $s_1$  and  $s_2$  are separated by a single space.

Note:

Use dictionary to solve the problem

For example:

Input	Result
this apple is sweet this apple is sour	sweet sour

Answer:(penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
def words(s1,s2):  
    _ _ _ . . .
```

## Feedback

	Input	Expected	Got	
	this apple is sweet this apple is sour	sweet sour	sweet sour	
	apple apple banana	banana	banana	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

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