PYHTHON EXERCISE

Question01:

Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 3200 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.

Hints:

Consider use range(#begin, #end) method.

Question02:

Write a program which can compute the factorial of a given numbers. The results should be printed in a comma-separated sequence on a single line. Suppose the following input is supplied to the program: 8 Then, the output should be: 40320

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input.

Question03:

With a given integral number n, write a program to generate a dictionary that contains (i, i x i) such that is an integral number between 1 and n (both included). and then the program should print the dictionary. Suppose the following input is supplied to the program: 8

Then, the output should be:

```
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64}
```

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input. Consider use dict()

Question04:

Write a program which accepts a sequence of comma-separated numbers from console and generate a list and a tuple which contains every number. Suppose the following input is supplied to the program:

Then, the output should be:

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input.tuple() method can convert list to tuple

Question05:

Define a class which has at least two methods:

- getString: to get a string from console input
- printString: to print the string in upper case.

Also please include simple test function to test the class methods.

Hints:

Use init method to construct some parameters

Question06:

Write a program that calculates and prints the value according to the given formula:

$$Q = Square \ root \ of \ [(2 \ _C \ _D)/H]$$

Following are the fixed values of C and H:

C is 50. H is 30.

D is the variable whose values should be input to your program in a commaseparated sequence. For example Let us assume the following comma separated input sequence is given to the program:

100,150,180

The output of the program should be:

18,22,24

Hints:

If the output received is in decimal form, it should be rounded off to its nearest value (for example, if the output received is 26.0, it should be printed as 26). In case of input data being supplied to the question, it should be assumed to be a console input.

Question07:

Write a program which takes 2 digits, X,Y as input and generates a 2-dimensional array. The element value in the i-th row and j-th column of the array should be i $_{j}$.*

Note: i=0,1..., X-1; j=0,1,jY-1. Suppose the following inputs are given to the program: 3,5

Then, the output of the program should be:

[[0, 0, 0, 0, 0], [0, 1, 2, 3, 4], [0, 2, 4, 6, 8]]

Hints:

Note: In case of input data being supplied to the question, it should be assumed to be a console input in a comma-separated form.

Question08:

Write a program that accepts a comma separated sequence of words as input and prints the words in a comma-separated sequence after sorting them alphabetically.

Suppose the following input is supplied to the program:

without, hello, bag, world

Then, the output should be:

bag, hello, without, world

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input.

Question09:

Write a program that accepts sequence of lines as input and prints the lines after making all characters in the sentence capitalized.

Suppose the following input is supplied to the program:

Hello world Practice makes perfect

Then, the output should be:

HELLO WORLD PRACTICE MAKES PERFECT

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input.

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Write a program that accepts a sequence of whitespace separated words as input and prints the words after removing all duplicate words and sorting them alphanumerically.

Suppose the following input is supplied to the program:

hello world and practice makes perfect and hello world again

Then, the output should be:

again and hello makes perfect practice world

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input. We use set container to remove duplicated data automatically and then use sorted() to sort the data

Question11:

Write a program which accepts a sequence of comma separated 4 digit binary numbers as its input and then check whether they are divisible by 5 or not. The numbers that are divisible by 5 are to be printed in a comma separated sequence.

Example:

0100,0011,1010,1001

Then the output should be:

1010

Notes: Assume the data is input by console.

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input.

Question12:

Write a program, which will find all such numbers between 1000 and 3000 (both included) such that each digit of the number is an even number. The numbers obtained should be printed in a comma-separated sequence on a single line.

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input.

Question13:

Write a program that accepts a sentence and calculate the number of letters and digits.

Suppose the following input is supplied to the program:

hello world! 123

Then, the output should be:

LETTERS 10 DIGITS 3

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input.

Question:14

Write a program that accepts a sentence and calculate the number of upper case letters and lower case letters.

Suppose the following input is supplied to the program:

Then,	the	output	should	be:
Then,	the	output	should	be:

UPPER CASE 1 LOWER CASE 9

Hello world!

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input.

Question15:

Write a program that computes the value of a+aa+aaa+aaaa with a given digit as the value of a.

Suppose the following input is supplied to the program:

9

Then, the output should be:

11106

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input.

Question16:

Use a list comprehension to square each odd number in a list. The list is input by a sequence of comma-separated numbers. >Suppose the following input is supplied to the program:

1,2,3,4,5,6,7,8,9

Then, the output should be:

In case of input data being supplied to the question, it should be assumed to be a console input.

Question17:

Write a program that computes the net amount of a bank account based a transaction log from console input. The transaction log format is shown as following:

D 100 W 200

• D means deposit while W means withdrawal.

Suppose the following input is supplied to the program:

D 300

D 300

W 200

D 100

Then, the output should be:

500

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input.

Question18:

A website requires the users to input username and password to register. Write a program to check the validity of password input by users.

Following are the criteria for checking the password:

- At least 1 letter between [a-z]
- At least 1 number between [0-9]
- At least 1 letter between [A-Z]
- At least 1 character from [\$#@]
- Minimum length of transaction password: 6
- Maximum length of transaction password: 12

Your program should accept a sequence of comma separated passwords and will check them according to the above criteria. Passwords that match the criteria are to be printed, each separated by a comma.

Example

If the following passwords are given as input to the program:

ABd1234@1,a F1#,2w3E*,2We3345

Then, the output of the program should be:

ABd1234@1

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input.

Question19:

You are required to write a program to sort the (name, age, score) tuples by ascending order where name is string, age and score are numbers. The tuples are input by console. The sort criteria is:

- 1: Sort based on name
- 2: Then sort based on age
- 3: Then sort by score

The priority is that name > age > score.

If the following tuples are given as input to the program:

Tom, 19,80

```
John,20,90
Jony,17,91
Jony,17,93
Json,21,85
```

Then, the output of the program should be:

```
[('John', '20', '90'), ('Jony', '17', '91'), ('Jony', '17', '93'), ('Json', '21', '85'), ('Tom', '19', '80')]
```

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input. We use itemgetter to enable multiple sort keys.

Question 20:

Define a class with a generator which can iterate the numbers, which are divisible by 7, between a given range 0 and n.

Suppose the following input is supplied to the program:

7

Then, the output should be:

0 7

14

Hints:

Consider use class, function and comprehension.

Question21:

A robot moves in a plane starting from the original point (0,0). The robot can move toward UP, DOWN, LEFT and RIGHT with a given steps. The trace of robot movement is shown as the following:

UP 5 DOWN 3 LEFT 3 RIGHT 2

The numbers after the direction are steps. Please write a program to compute the distance from current position after a sequence of movement and original point. If the distance is a float, then just print the nearest integer. Example: If the following tuples are given as input to the program:

UP 5 DOWN 3 LEFT 3 RIGHT 2

Then, the output of the program should be:

2

Hints:

In case of input data being supplied to the question, it should be assumed to be a console input. Here distance indicates to euclidean distance. Import math module to use sqrt function.

Question22:

Write a program to compute the frequency of the words from the input. The output should output after sorting the key alphanumerically.

Suppose the following input is supplied to the program:

New to Python or choosing between Python 2 and Python 3? Read Python 2 or Python 3.

Then, the output should be:

2:2

3.:1

3?:1

New:1
Python:5
Read:1
and:1
between:1
choosing:1
or:2

to:1

In case of input data being supplied to the question, it should be assumed to be a console input.

Question23:

Write a method which can calculate square value of number

Hints:

Using the ** operator which can be written as n**p where means n^p

Question24:

Python has many built-in functions, and if you do not know how to use it, you can read document online or find some books. But Python has a built-in document function for every built-in functions.

Please write a program to print some Python built-in functions documents, such as abs(), int(), raw_input()

And add document for your own function

Hints:

The built-in document method is __doc__

Define a class, which have a class parameter and have a same instance parameter.
Hints:
Define an instance parameter, need add it ininit method. You can init an object with construct parameter or set the value later
Question25:
Define a function which can compute the sum of two numbers.
Hints:
Define a function with two numbers as arguments. You can compute the sum if the function and return the value.
Question26:
Define a function that can convert a integer into a string and print it in consol
Hints:
Use str() to convert a number to string.
Question27:
Define a function that can receive two integer numbers in string form and compute their sum and then print it in console.
Hints:
Use int() to convert a string to integer.

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Define a function that can accept two strings as input and concatenate them and then print it in console.

Hints:

Use + sign to concatenate the strings.

Question29:

Define a function that can accept two strings as input and print the string with maximum length in console. If two strings have the same length, then the function should print all strings line by line.

Hints:

Use len() function to get the length of a string.

Question30:

Define a function which can print a dictionary where the keys are numbers between 1 and 20 (both included) and the values are square of keys.

Hints:

Use dict[key]=value pattern to put entry into a dictionary.Use ** operator to get power of a number.Use range() for loops.

Question31:

Define a function which can generate a dictionary where the keys are numbers between 1 and 20 (both included) and the values are square of keys. The function should just print the keys only.

Use dict[key]=value pattern to put entry into a dictionary.Use ** operator to get power of a number.Use range() for loops.Use keys() to iterate keys in the dictionary. Also we can use item() to get key/value pairs.

Question31:

Define a function which can generate and print a list where the values are square of numbers between 1 and 20 (both included).

Hints:

Use ** operator to get power of a number.Use range() for loops.Use list.append() to add values into a list

Question:33

Define a function which can generate a list where the values are square of numbers between 1 and 20 (both included). Then the function needs to print the first 5 elements in the list.

Hints:

Use ** operator to get power of a number.Use range() for loops.Use list.append() to add values into a list.Use [n1:n2] to slice a list

Question:34

Define a function which can generate a list where the values are square of numbers between 1 and 20 (both included). Then the function needs to print the last 5 elements in the list.

Hints:

Use ** operator to get power of a number.Use range() for loops.Use list.append() to add values into a list.Use [n1:n2] to slice a list

Question:35

Define a function which can generate a list where the values are square of numbers between 1 and 20 (both included). Then the function needs to print all values except the first 5 elements in the list.

Hints: Use ** operator to get power of a number.Use range() for loops.Use list.append() to add values into a list.Use [n1:n2] to slice a list

Question:36

Define a function which can generate and print a tuple where the value are square of numbers between 1 and 20 (both included).

Hints:

Use ** operator to get power of a number.Use range() for loops.Use list.append() to add values into a list.Use tuple() to get a tuple from a list.

Question:37

With a given tuple (1,2,3,4,5,6,7,8,9,10), write a program to print the first half values in one line and the last half values in one line.

Hints:

Use [n1:n2] notation to get a slice from a tuple.

Question:38

Write a program to generate and print another tuple whose values are even numbers in the given tuple (1,2,3,4,5,6,7,8,9,10).

Use "for" to iterate the tuple. Use tuple() to generate a tuple from a list.

Question:39

Write a program which accepts a string as input to print "Yes" if the string is "yes" or "YES" or "Yes", otherwise print "No".

Hints:

Use if statement to judge condition.

Question:40

Write a program which can map() to make a list whose elements are square of elements in [1,2,3,4,5,6,7,8,9,10].

Hints:

Use map() to generate a list. Use lambda to define anonymous functions.

Question:41

Write a program which can map() and filter() to make a list whose elements are square of even number in [1,2,3,4,5,6,7,8,9,10].

Hints:

Use map() to generate a list. Use filter() to filter elements of a list. Use lambda to define anonymous functions.

Question:42

Write a program which can filter() to make a list whose elements are even number between 1 and 20 (both included).
Hints:
Use filter() to filter elements of a list. Use lambda to define anonymous functions.
Question:43
Write a program which can map() to make a list whose elements are square of numbers between 1 and 20 (both included).
Hints:
Use map() to generate a list. Use lambda to define anonymous functions.
Question:44
Define a class named American which has a static method called printNationality.
Hints:
Use @staticmethod decorator to define class static method
Question:45
Define a class named American and its subclass NewYorker.
Hints:
Use class Subclass(ParentClass) to define a subclass.*

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Define a class named Circle which can be constructed by a radius. The Circle class has a method which can compute the area.

Hints

Use def methodName(self) to define a method.

Question47:

Define a class named Rectangle which can be constructed by a length and width. The Rectangle class has a method which can compute the area.

Hints

Use def methodName(self) to define a method.

Question48:

Define a class named Shape and its subclass Square. The Square class has an init function which takes a length as argument. Both classes have a area function which can print the area of the shape where Shape's area is 0 by default.

Hints

To override a method in super class, we can define a method with the same name in the super class.

Question49:

Please raise a RuntimeError exception.

UUse raise() to raise an exception.

Question 50:

Write a function to compute 5/0 and use try/except to catch the exceptions.

Hints

Use try/except to catch exceptions.

Question51:

Define a custom exception class which takes a string message as attribute.

Hints

To define a custom exception, we need to define a class inherited from Exception.

Question52:

Assuming that we have some email addresses in the

"username@companyname.com" format, please write program to print the user name of a given email address. Both user names and company names are composed of letters only.

Example: If the following email address is given as input to the program:

john@google.com

Then, the output of the program should be:

john

In case of input data being supplied to the question, it should be assumed to be a console input.

Use \w to match letters.

Question53:

Assuming that we have some email addresses in the

"username@companyname.com" format, please write program to print the company name of a given email address. Both user names and company names are composed of letters only.

Example: If the following email address is given as input to the program:

john@google.com

Then, the output of the program should be:

google

In case of input data being supplied to the question, it should be assumed to be a console input.

Hints

Use \w to match letters.

Question54:

Write a program which accepts a sequence of words separated by whitespace as input to print the words composed of digits only.

Example: If the following words is given as input to the program:

2 cats and 3 dogs.

Then, the output of the program should be:

['2', '3']

In case of input data being supplied to the question, it should be assumed to be a console input.
Hints
Use re.findall() to find all substring using regex.
Question55:
Print a unicode string "hello world".
Hints
Use u'strings' format to define unicode string.
Question56:
Write a program to read an ASCII string and to convert it to a unicode string encoded by utf-8.
Hints
Use unicode()/encode() function to convert.
Question57:
Write a special comment to indicate a Python source code file is in unicode.
Hints
Use unicode() function to convert.

Question58:

Write a program to compute 1/2+2/3+3/4+...+n/n+1 with a given n input by console (n>0).

Example: If the following n is given as input to the program:

5

Then, the output of the program should be:

3.55

In case of input data being supplied to the question, it should be assumed to be a console input.

Hints

Use float() to convert an integer to a float. Even if not converted it wont cause a problem because python by default understands the data type of a value

Question59:

Write a program to compute:

$$f(n)=f(n-1)+100$$
 when n>0 and $f(0)=0$

with a given n input by console (n>0).

Example: If the following n is given as input to the program:

5

Then, the output of the program should be:

500

In case of input data being supplied to the question, it should be assumed to be a console input.

We can define recursive function in Python.

Question60:

The Fibonacci Sequence is computed based on the following formula:

```
f(n)=0 if n=0
f(n)=1 if n=1
f(n)=f(n-1)+f(n-2) if n>1
```

Please write a program to compute the value of f(n) with a given n input by console.

Example: If the following n is given as input to the program:

7

Then, the output of the program should be:

13

In case of input data being supplied to the question, it should be assumed to be a console input.

Hints

We can define recursive function in Python.

Question61:

The Fibonacci Sequence is computed based on the following formula:

Please write a program to compute the value of f(n) with a given n input by console.

Example: If the following n is given as input to the program:

7

Then, the output of the program should be:

0,1,1,2,3,5,8,13

In case of input data being supplied to the question, it should be assumed to be a console input.

Hints

We can define recursive function in Python. Use list comprehension to generate a list from an existing list. Use string.join() to join a list of strings.

Question62:

Please write a program using generator to print the even numbers between 0 and n in comma separated form while n is input by console.

Example: If the following n is given as input to the program:

10

Then, the output of the program should be:

0,2,4,6,8,10

In case of input data being supplied to the question, it should be assumed to be a console input.

Hints

Use yield to produce the next value in generator.

Question63:

Please write a program using generator to print the numbers which can be divisible by 5 and 7 between 0 and n in comma separated form while n is input by console.

Example: If the following n is given as input to the program:

100

Then, the output of the program should be:

0,35,70

In case of input data being supplied to the question, it should be assumed to be a console input.

Hints

Use yield to produce the next value in generator.

Question64:

Please write assert statements to verify that every number in the list [2,4,6,8] is even.

Hints

Use "assert expression" to make assertion.

Question65:

Please write a program which accepts basic mathematic expression from console and print the evaluation result.

Example: If the following n is given as input to the program:

Then, the output of the program should be:
38
Hints
Use eval() to evaluate an expression.
Question65:
Please write a binary search function which searches an item in a sorted list. The function should return the index of element to be searched in the list.
Hints
Use if/elif to deal with conditions.
Question66:
Please generate a random float where the value is between 10 and 100 using Python module.
Hints
Use random.random() to generate a random float in [0,1].
Question67:
Please generate a random float where the value is between 5 and 95 using Python module.
Hints
Use random.random() to generate a random float in [0,1].

Question68:
Please write a program to output a random even number between 0 and 10 inclusive using random module and list comprehension.
Hints
Use random.choice() to a random element from a list.
Question69:
Please write a program to output a random number, which is divisible by 5 and 7, between 10 and 150 inclusive using random module and list comprehension.
Hints
Use random.choice() to a random element from a list.
Question70:
Please write a program to generate a list with 5 random numbers between 100 and 200 inclusive.

Use random.sample() to generate a list of random values.

Question71:

Please write a program to randomly generate a list with 5 even numbers between 100 and 200 inclusive.

Hints



Question72:

Please write a program to randomly generate a list with 5 numbers, which are divisible by 5 and 7, between 1 and 1000 inclusive.

Hints

Use random.sample() to generate a list of random values.

Question73:

Please write a program to randomly print a integer number between 7 and 15 inclusive.

Hints

Use random.randrange() to a random integer in a given range.

Question74:

Please write a program to compress and decompress the string 'hello world!hello world!hello world!''.

Hints

Use zlib.compress() and zlib.decompress() to compress and decompress a string.

Question75:

Please write a program to print the running time of execution of "1+1" for 100 times.

Use timeit() function to measure the running time.

Question76:

Please write a program to shuffle and print the list [3,6,7,8].

Hints

Use shuffle() function to shuffle a list.

Question77:

Please write a program to generate all sentences where subject is in ["I", "You"] and verb is in ["Play", "Love"] and the object is in ["Hockey", "Football"].

Hints

Use list[index] notation to get a element from a list.

Question78:

Please write a program to print the list after removing even numbers in [5,6,77,45,22,12,24].

Hints

Use list comprehension to delete a bunch of element from a list.

Question79:

By using list comprehension, please write a program to print the list after removing numbers which are divisible by 5 and 7 in [12,24,35,70,88,120,155].

Use list comprehension to delete a bunch of element from a list.

Question80:

By using list comprehension, please write a program to print the list after removing the 0th, 2nd, 4th,6th numbers in [12,24,35,70,88,120,155].

Hints

Use list comprehension to delete a bunch of element from a list. Use enumerate() to get (index, value) tuple.

Question81:

By using list comprehension, please write a program to print the list after removing the 2nd - 4th numbers in [12,24,35,70,88,120,155].

Hints

Use list comprehension to delete a bunch of element from a list. Use enumerate() to get (index, value) tuple.

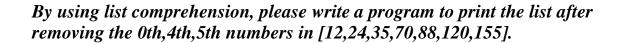
Question82:

By using list comprehension, please write a program generate a 3*5*8 3D array whose each element is 0.

Hints

Use list comprehension to make an array.

Question83:



Use list comprehension to delete a bunch of element from a list. Use enumerate() to get (index, value) tuple.

Question84:

By using list comprehension, please write a program to print the list after removing the value 24 in [12,24,35,24,88,120,155].

Hints

Use list's remove method to delete a value.

Question85:

With two given lists [1,3,6,78,35,55] and [12,24,35,24,88,120,155], write a program to make a list whose elements are intersection of the above given lists.

Hints

Use set() and "&=" to do set intersection operation.

Question86:

With a given list [12,24,35,24,88,120,155,88,120,155], write a program to print this list after removing all duplicate values with original order reserved.

Hints

Use set() to store a number of values without duplicate.

Question87:

Define a class Person and its two child classes: Male and Female. All classes have a method "getGender" which can print "Male" for Male class and "Female" for Female class.

Hints

Use Subclass(Parentclass) to define a child class.

Question88:

Please write a program which count and print the numbers of each character in a string input by console.

Example: If the following string is given as input to the program:

abcdefgabc

Then, the output of the program should be:

a,2

c,2

b,2

e.1

d,1

g,1

f.1

Hints

Use dict to store key/value pairs. Use dict.get() method to lookup a key with default value.

Question89:

Please write a program which accepts a string from console and print it in reverse order.

Example: If the following string is given as input to the program:*

rise to vote sir

Then, the output of the program should be:

ris etov ot esir

Hints

Use list[::-1] to iterate a list in a reverse order.

Question90:

Please write a program which accepts a string from console and print the characters that have even indexes.

Example: If the following string is given as input to the program:

H1e2l3l4o5w6o7r8l9d

Then, the output of the program should be:

Helloworld

Hints

Use list[::2] to iterate a list by step 2.

Question91:

Please write a program which prints all permutations of [1,2,3]

Hints

Use itertools.permutations() to get permutations of list.

Question92:

Write a program to solve a classic ancient Chinese puzzle: We count 35 heads and 94 legs among the chickens and rabbits in a farm. How many rabbits and how many chickens do we have?

Use for loop to iterate all possible solutions.

Question93:

Given the participants' score sheet for your University Sports Day, you are required to find the runner-up score. You are given scores. Store them in a list and find the score of the runner-up.

If the following string is given as input to the program:

5 2 3 6 6 5

Then, the output of the program should be:

5

Hints

Make the scores unique and then find 2nd best number

Question94:

You are given a string S and width W. Your task is to wrap the string into a paragraph of width.

If the following string is given as input to the program:

ABCDEFGHIJKLIMNOQRSTUVWXYZ

Then, the output of the program should be:

ABCD EFGH IJKL IMNO QRST UVWX YZ

Hints

Use wrap function of textwrap module

Question95:

You are given an integer, N. Your task is to print an alphabet rangoli of size N. (Rangoli is a form of Indian folk art based on creation of patterns.)

Different sizes of alphabet rangoli are shown below:

```
#size 3
----c---
--c-b-c--
c-b-a-b-c
--c-b-c--
----c---
#size 5
-----e----
-----e-d-e-----
----e-d-c-d-e----
--e-d-c-b-c-d-e--
e-d-c-b-a-b-c-d-e
--e-d-c-b-c-d-e--
----e-d-c-d-e----
-----e-d-e-----
-----e----
```

Hints

First print the half of the Rangoli in the given way and save each line in a list. Then print the list in reverse order to get the rest.

Question96:

You are given a date. Your task is to find what the day is on that date.

Input

A single line of input containing the space separated month, day and year, respectively, in MM DD YYYY format.

08 05 2015

Output

Output the correct day in capital letters.

WEDNESDAY

Hints

Use weekday function of calender module

Question97:

Given 2 sets of integers, M and N, print their symmetric difference in ascending order. The term symmetric difference indicates those values that exist in either M or N but do not exist in both.

Input

The first line of input contains an integer, M. The second line contains M space-separated integers. The third line contains an integer, N. The fourth line contains N space-separated integers.

Output

Output the symmetric difference integers in ascending order, one per line.

Use '^' to make symmetric difference operation.

Question98:

You are given words. Some words may repeat. For each word, output its number of occurrences. The output order should correspond with the input order of appearance of the word. See the sample input/output for clarification.

If the following string is given as input to the program:

4 bcdef abcdefg bcde bcdef

Then, the output of the program should be:

3 2 1 1

Hints

Make a list to get the input order and a dictionary to count the word frequency

Question99:

You are given a string. Your task is to count the frequency of letters of the string and print the letters in descending order of frequency.

If the following string is given as input to the program:

aabbbccde

Then, the output of the program should be:
b 3 a 2 c 2 d 1 e 1
Hints
Count frequency with dictionary and sort by Value from dictionary Items
Question100:
Write a Python program that accepts a string and calculate the number of digits and letters.
Input
Hello321Bye360
Output
Digit - 6 Letter - 8
Hints
Use isdigit() and isalpha() function
Question101:
Given a number N.Find Sum of 1 to N Using Recursion
Input
5
Output
15

Make a recursive function to get the sum