PROGRAMMING USING PYTHON

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Week1_Coding Started on Wednesday, 20 March 2024, 2:05 PM State Finished Completed on Wednesday, 3 April 2024, 8:07 PM Time taken 14 days 6 hours Marks 4.00/6.00 Grade 66.67 out of 100.00 Question 1 Correct Mark 1.00 out of 1.00 Flag question Question text Write a program to convert strings to an integer and float and display its type. Sample Input: 10 10.9 Sample Output: 10,<class 'int'> 10.9,<class 'float'> For example: Input Result 10 10.9 10.<class 'int'>

10.9,<class 'float'>

Answer:(penalty regime: 0 %) Feedback Input Expected Got 10 10.9 10,<class 'int'> 10.9,<class 'float'> 10,<class 'int'> 10.9,<class 'float'> 12 12.5 12,<class 'int'> 12.5,<class 'float'> 12,<class 'int'> 12.5,<class 'float'> 89 7.56 89,<class 'int'> 7.6,<class 'float'> 89,<class 'int'> 7.6,<class 'float'> 55000 56.2 55000,<class 'int'> 56.2,<class 'float'> 55000,<class 'int'> 56.2,<class 'float'> 2541

2541.679

2541, <class 'int'=""></class>		
2541.7, <class 'float'=""></class>		
2541, <class 'int'=""></class>		
2541.7, <class 'float'=""></class>		
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		
Ramesh's basic salary is input through the keyboard. His dearness allowance is 40% of his basic salary, and his house rent allowance is 20% of his basic salary. Write a program to calculate his gross salary.		
Sample Input:		
10000		
Sample Output:		
16000		
For example:		
Input Result		
10000		
16000		
Answer:(penalty regime: 0 %)		
Feedback		
Input Expected Got		
10000		
16000		
16000.0		
20000		

32000
32000.0
28000
44800
44800.0
5000
8000
8000.0
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 3
Incorrect
Mark 0.00 out of 1.00
Flag question
Question text
Write a simple python program to find the square root of a given floating point number. The output should be displayed with 3 decimal places.
Sample Input:
8.00
Sample Output:
2.828
For example:
Input Result
14.00
3.742
Answer:(penalty regime: 0 %)
Feedback

Input Expected Got
8.00
2.828
2.828427
14.00
3.742
3.741657
4.00
2.000
2.000000
487
22.068
22.068076
Question 4
Question text
Alfred buys an old scooter for Rs. X and spends Rs. Y on its repairs. If he sells the scooter for Rs. Z (Z>X+Y). Write a program to help Alfred to find his gain percent. Get all the above-mentioned values through the keyboard and find the gain percent.
Input Format:
The first line contains the Rs X
The second line contains Rs Y
The third line contains Rs Z
Sample Input:
10000
250
15000
Sample Output:
46.34 is the gain percent.
For example:

Input Result 45500 500 60000 30.43 is the gain percent. Question 5 Correct Mark 1.00 out of 1.00 Flag question Question text In many jurisdictions, a small deposit is added to drink containers to encourage people to recycle them. In one particular jurisdiction, drink containers holding one liter or less have a \$0.10 deposit and drink containers holding more than one liter have a \$0.25 deposit. Write a program that reads the number of containers of each size(less and more) from the user. Your program should continue by computing and displaying the refund that will be received for returning those containers. Format the output so that it includes a dollar sign and always displays exactly two decimal places. Sample Input 10 20 Sample Output Your total refund will be \$6.00. For example: Input Result 20 20 Your total refund will be \$7.00. Answer:(penalty regime: 0 %) Feedback Input Expected Got 20

Your total refund will be \$7.00.

Your total refund will be \$7.00.

11

22

Your total refund will be \$6.60.

Your total refund will be \$6.60.

123

200

Your total refund will be \$62.30.

Your total refund will be \$62.30.

76

38

Your total refund will be \$17.10.

Your total refund will be \$17.10.

Question 6

Question text

Justin is a carpenter who works on an hourly basis. He works in a company where he is paid Rs 50 for an hour on weekdays and Rs 80 for an hour on weekends. He works 10 hrs more on weekdays than weekends. If the salary paid for him is given, write a program to find the number of hours he has worked on weekdays and weekends.

Hint:

If the final result(hrs) are in -ve convert that to +ve using abs() function

The abs() function returns the absolute value of the given number.

number = -20

absolute_number = abs(number)

print(absolute_number)

Output: 20

Sample Input:

450

Sample Output: weekdays 10.38 weekend 0.38 For example: Input Result 450 weekdays 10.38 weekend 0.38 Answer:(penalty regime: 0 %) Feedback Input Expected Got 450 weekdays 10.38 weekend 0.38 weekdays 10.38 weekend 0.38 500 weekdays 10.00 weekend 0.00 weekdays 10.00 weekend 0.00 10000 weekdays 83.08 weekend 73.08 weekdays 83.08 weekend 73.08 6789 weekdays 58.38 weekend 48.38

weekend 48.38
Passed all tests!
Week2 Coding:
Question 1
Write a program that returns the last digit of the given number. Last digit is being referred to the least significant digit i.e. the digit in the ones (units) place in the given number.
The last digit should be returned as a positive number.
For example,
if the given number is 197, the last digit is 7
if the given number is -197, the last digit is 7
For example:
Input Result
197
7
-197
Question 2
Question text
Note:
Don't use if-else. Operators alone must be used .
A team from the Rotract club had planned to conduct a rally to create awareness among the Coimbatore people to donate blood. They conducted the rally successfully. Many of the Coimbatore people realized it and came forward to donate their blood to nearby blood banks. The eligibility criteria for donating blood are people should be above or equal to 18 and his/ her weight should be above 40. There was a huge crowd and staff in the blood bank found it difficult to manage the crowd. So they decided to keep a system and ask the people to enter their age and weight in the system. If a person is eligible he/she will be allowed inside.
Write a program and feed it to the system to find whether a person is eligible or not
Innut Format:

Input consists of two integers that correspond to the age and weight of a person respectively.

weekdays 58.38

Output Format:

Display True(IF ELIGIBLE)			
Display False (if not eligible)			
Sample	Input		
19	19		
45			
Sample	Output		
True			
For exa	mple:		
Input	Result		
18	40False		
Answer	:(penalty regime	:: 0 %)	
Feedba	ck		
Input	Expected	Got	
19			
45			
True			
True			
18			
40			
False			
False			
18			
42			
True			
True			
16			
45			
False			

False

Question 3			
Correct			
Mark 1.00 out of 1.00			
Flag question			
Question text			
Write a python program that takes a integer between 0 and 15 as input and displays the number of '1' s in its binary form.(Hint:use python bitwise operator.			
Sample Input			
3			
Sample Output:			
2			
Explanation:			
The binary representation of 3 is 011, hence there are 2 ones in it. so the output is 2.			
For example:			
Input Result			
3			
2			
Answer:(penalty regime: 0 %)			
Feedback			
Input Expected Got			
3			
2			
2			
5			
2			
2			
15			
4			
4			

Question 4

Question text

273

In the 1800s, the battle of Troy was led by Hercules. He was a superstitious person. He believed that his crew can win the battle only if the total count of the weapons in hand is in multiple of 3 and the soldiers are in an even number of count. Given the total number of weapons and the soldier's count, Find whether the battle can be won or not according to Hercules's belief. If the battle can be won print True otherwise print False.

are in an even number of count. Given the total number of whether the battle can be won or not according to Herculo otherwise print False.
Input format:
Line 1 has the total number of weapons
Line 2 has the total number of Soldiers.
Output Format:
If the battle can be won print True otherwise print False.
Sample Input:
32
43
Sample Output:'
False
For example:
Input Result
32
43
False
Answer:(penalty regime: 0 %)
Feedback
Input Expected Got
32
43
False
False

7890
True
True
800
4590
False
False
6789
32996
True
True
Question 5
Question text
Mr. X's birthday is in next month. This time he is planning to invite N of his friends. He wants to distribute some chocolates to all of his friends after the party. He went to a shop to buy a packet of chocolates. At the chocolate shop, 4 packets are there with different numbers of chocolates. He wants to buy such a packet which contains a number of chocolates, which can be distributed equally among all of his friends.
Help Mr. X to buy such a packet.
Help Mr. X to buy such a packet. Input Given:
Input Given:
Input Given: N-No of friends
Input Given: N-No of friends P1,P2,P3 AND P4-No of chocolates
Input Given: N-No of friends P1,P2,P3 AND P4-No of chocolates OUTPUT:
Input Given: N-No of friends P1,P2,P3 AND P4-No of chocolates OUTPUT: "True" if he can buy that packet and "False" if he can't buy that packet.
Input Given: N-No of friends P1,P2,P3 AND P4-No of chocolates OUTPUT: "True" if he can buy that packet and "False" if he can't buy that packet. SAMPLE INPUT AND OUTPUT:
Input Given: N-No of friends P1,P2,P3 AND P4-No of chocolates OUTPUT: "True" if he can buy that packet and "False" if he can't buy that packet. SAMPLE INPUT AND OUTPUT: 5
Input Given: N-No of friends P1,P2,P3 AND P4-No of chocolates OUTPUT: "True" if he can buy that packet and "False" if he can't buy that packet. SAMPLE INPUT AND OUTPUT: 5 25
Input Given: N-No of friends P1,P2,P3 AND P4-No of chocolates OUTPUT: "True" if he can buy that packet and "False" if he can't buy that packet. SAMPLE INPUT AND OUTPUT: 5 25 12

True False True False
For example:
Input Result
5
25
23
20
10
True False True True
Answer:(penalty regime: 0 %)
Feedback
Input Expected Got
5
25
23
20
10
True False True True
True False True True
4
23
24
21
12
False True False True
False True False True
8
64

32

True True True True

True True True True

Question 6

Question text

The program that you create for this exercise will begin by reading the cost of a meal ordered at a restaurant from the user. Then your program will compute the tax and tip for the meal. Use your local tax rate (5 percent) when computing the amount of tax owing. Compute the tip as 18 percent of the meal amount (without the tax). The output from your program should include the tax amount, the tip amount, and the grand total for the meal including both the tax and the tip. Format the output so that all of the values are displayed using two decimal places.

Sample Input

100

Sample Output

The tax is 5.00 and the tip is 18.00, making the total 123.00

For example:

Input Result

100

The tax is 5.00 and the tip is 18.00, making the total 123.00

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got

100

The tax is 5.00 and the tip is 18.00, making the total 123.00

The tax is 5.00 and the tip is 18.00, making the total 123.00

250

The tax is 12.50 and the tip is 45.00, making the total 307.50

The tax is 12.50 and the tip is 45.00, making the total 307.50

Question 7

Question textPretend that you have just opened a new savings account that earns 4 percent interest per year. The interest that you earn is paid at the end of the year, and is added to the balance of the savings account. Write a program that begins by reading the amount of money deposited into the account from the user. Then your program should compute and display the amount in the savings account after 1, 2, and 3 years. Display each amount so that it is rounded to 2 decimal places. Sample Input: 10000 Sample Output: Balance as of end of Year 1: \$10400.00. Balance as of end of Year 3: \$11248.64.

For example:

Input Result

10000

Balance as of end of Year 1: \$10400.00.

Balance as of end of Year 2: \$10816.00.

Balance as of end of Year 3: \$11248.64.

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got

10000

Balance as of end of Year 1: \$10400.00.

Balance as of end of Year 2: \$10816.00.

Balance as of end of Year 3: \$11248.64.

Balance as of end of Year 1: \$10400.00.

Balance as of end of Year 2: \$10816.00.

Balance as of end of Year 3: \$11248.64.

20000

Balance as of end of Year 1: \$20800.00.

Balance as of end of Year 2: \$21632.00.

Balance as of end of Year 3: \$22497.28.

Balance as of end of Year 1: \$20800.00.

Balance as of end of Year 2: \$21632.00.

Balance as of end of Year 3: \$22497.28.

Question 8

Question text

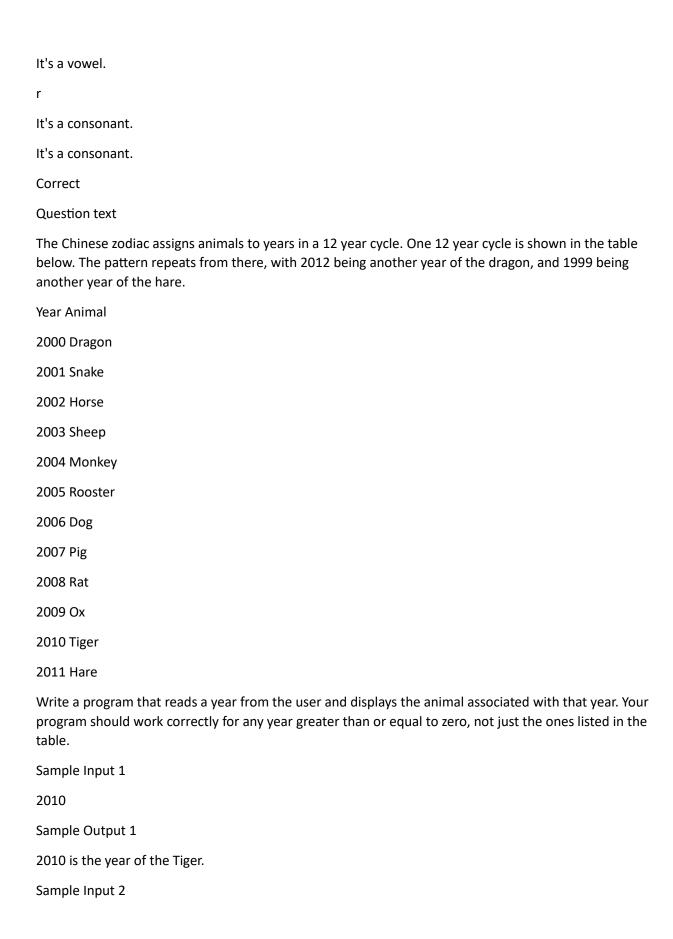
Mr.Ram has been given a problem kindly help him to solve it. The input of the program is either 0 or 1. IF 0 is the input he should display "C" if 1 is the input it should display "D". There is a constraint that Mr. Ram should use either logical operators or arithmetic operators to solve the problem, not anything else.

Input	Expected	Got
0		
С		
С		
1		
D		
D		
Questio	on 9	
Questio	on text	
of diffe heads t	rent varieties. The cocreate dolls in	uring Dasara there will be a very grand doll show. People try to invent new dolls ne best-sold doll's creator will be awarded with a cash prize. So people broke their novatively. Knowing this competition, Mr.Lokpaul tried to create a doll that sings ober is pressed and the number should not be zero and greater than 100.
IF Lokp	oaul wins print tr	ue, otherwise false.
Sample	! Input	
10		
Sample	Output	
True		
Explana	ation:	
Since 1	0 is an even num	ber and a number between 0 and 100, True is printed
For exa	mple:	
Input	Result	
101		
False		
Input	Expected	Got
56		

True
True
101
False
False
-1
False
False
Question 10
Question text
An online retailer sells two products: widgets and gizmos. Each widget weighs 75 grams. Each gizmo weighs 112 grams. Write a program that reads the number of widgets and the number of gizmos from the user. Then your program should compute and display the total weight of the parts.
Sample Input:
10
20
Sample Output:
The total weight of all these widgets and gizmos is 2990 grams.
Input Expected Got
10
20
The total weight of all these widgets and gizmos is 2990 grams.
The total weight of all these widgets and gizmos is 2990 grams.
Week3_coding
Question 1
Question text

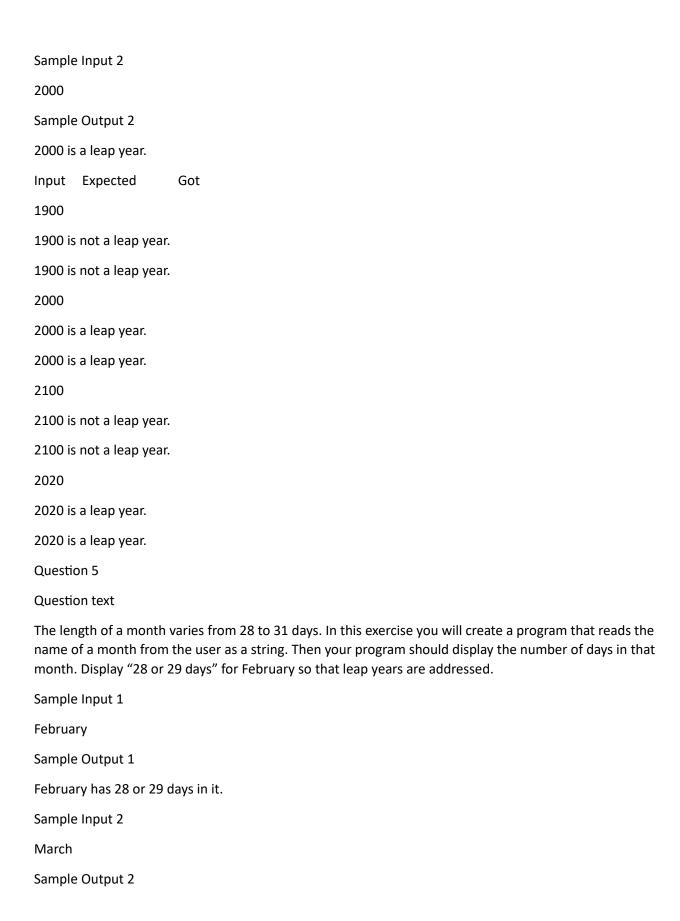
In this exercise you will create a program that reads a letter of the alphabet from the user. If the user enters a, e, i, o or u then your program should display a message indicating that the entered letter is a vowel. If the user enters y then your program should display a message indicating that sometimes y is a vowel, and sometimes y is a consonant. Otherwise your program should display a message indicating that the letter is a consonant.

```
Sample Input 1
Sample Output 1
It's a vowel.
Sample Input 2 y
Sample Output 2
Sometimes it's a vowel... Sometimes it's a consonant.
Sample Input3
С
Sample Output 3
It's a consonant.
For example:
Input Result
У
Sometimes it's a vowel... Sometimes it's a consonant.
С
Feedback
Input Expected
                       Got
i
It's a vowel.
It's a vowel.
у
Sometimes it's a vowel... Sometimes it's a consonant.
Sometimes it's a vowel... Sometimes it's a consonant.
С
It's a consonant.
It's a consonant.
It's a vowel.
```



2020				
Sample Output 2				
2020 is the year of the Rat.				
Input Expected C	Got			
2010				
2010 is the year of the Ti	2010 is the year of the Tiger.			
2010 is the year of the Ti	ger.			
2020				
2020 is the year of the Ra	at.			
2020 is the year of the Ra	at			
Question 3				
Incorrect				
Mark 0.00 out of 1.00				
Flag question				
Question text				
· -	late and print the Electricity bill where the unit consumed by the user is given he total amount the customer has to pay. The charge are as follows:			
Unit	Charge / Unit			
Upto 199	@1.20			
200 and above but less th	han 400 @1.50			
400 and above but less th	han 600 @1.80			
600 and above	@2.00			
If bill exceeds Rs.400 then a surcharge of 15% will be charged and the minimum bill should be of Rs.100/-				
Sample Test Cases				
Test Case 1				
Input				
50				
Output				

100.00
Test Case 2
Input
300
Output
517.50
For example:
Input Result
100.00
120.00
500
1035.00
Question 4
Correct
Mark 1.00 out of 1.00
Flag question
Question text
Most years have 365 days. However, the time required for the Earth to orbit the Sun is actually slightly more than that. As a result, an extra day, February 29, is included in some years to correct for this difference. Such years are referred to as leap years. The rules for determining whether or not a year is a leap year follow:
• Any year that is divisible by 400 is a leap year.
• Of the remaining years, any year that is divisible by 100 is not a leap year.
• Of the remaining years, any year that is divisible by 4 is a leap year. • All other years are not leap years.
Write a program that reads a year from the user and displays a message indicating whether or not it is a leap year.
Sample Input 1
1900
Sample Output 1
1900 is not a leap year.



March has 31 days in it. Sample Input 3 April Sample Output 3 April has 30 days in it. For example: Input Result February February has 28 or 29 days in it. Input Expected Got February February has 28 or 29 days in it. February has 28 or 29 days in it. March March has 31 days in it. March has 31 days in it. April April has 30 days in it. April has 30 days in it. May May has 31 days in it. May has 31 days in it. Question 6 Question text IN / OUT

Ms. Sita, the faculty handling programming lab for you is very strict. Your seniors have told you that she will not allow you to enter the week's lab if you have not completed atleast half the number of problems given last week. Many of you didn't understand this statement and so they requested the good programmers from your batch to write a program to find whether a student will be allowed into a week's

lab given the number of problems given last week and the number of problems solved by the student in that week.
Input Format:
Input consists of 2 integers.
The first integer corresponds to the number of problems given and the second integer corresponds to the number of problems solved.
Output Format
Output consists of the string "IN" or "OUT".
Sample Input and Output:
Input
8
3
Output
OUT
For example:
Input Result
8
3
OUT
Answer:(penalty regime: 0 %)
Feedback
Input Expected Got
8
3
OUT
OUT
8
5
IN

IN
20
9
OUT
OUT
50
31
IN
IN
Question 7
Question text
Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third.
For example, 3, 5 and 4 form a Pythagorean triple, since $3*3 + 4*4 = 25 = 5*5$
You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters.
Sample Input
3
5
4
Sample Output
yes
Sample Test Cases
Test Case 1
Input
3
5
4
Output

yes Test Case 2 Input 5 8 2 Output no Feedback Input Expected Got 3 5 4 yes yes 5 8 2 no no Question 8 Question text

A triangle can be classified based on the lengths of its sides as equilateral, isosceles or scalene. All three sides of an equilateral triangle have the same length. An isosceles triangle has two sides that are the same length, and a third side that is a different length. If all of the sides have different lengths then the triangle is scalene.

Write a program that reads the lengths of the three sides of a triangle from the user. Then display a message that states the triangle's type.

Sample Input 1

60

60		
60		
Sample (Output 1	
That's a	equilateral triar	ngle
Sample I	nput 2	
40		
40		
80		
Sample (Output 2	
That's a	isosceles triang	le
Sample I	nput 3	
50		
60		
70		
Sample (Output 3	
That's a	scalene triangle	!
For exam	nple:	
Input I	Result	
60		
60		
60		
That's a	equilateral triar	ngle
40		
40		
80		
That's a	isosceles triang	le
Answer:	(penalty regime	: 0 %)
Feedbac	k	
Input I	Expected	Got

60
60
60
That's a equilateral triangle
That's a equilateral triangle
40
40
80
That's a isosceles triangle
That's a isosceles triangle
50
60
70
That's a scalene triangle
That's a scalene triangle
50
50
80
That's a isosceles triangle
That's a isosceles triangle
10
10
10
That's a equilateral triangle
That's a equilateral triang
Question 9
Question text
Write a program to find the eligibility of admission for a professional course based on the following criteria:

Marks in Maths >= 65
Marks in Physics >= 55
Marks in Chemistry >= 50
Or
Total in all three subjects >= 180
Sample Test Cases
Test Case 1
Input
70
60
80
Output
The candidate is eligible
Test Case 2
Input
50
80
80
Output
The candidate is eligible
Test Case 3
Input
50
60
40
Output
The candidate is not eligible
For example:
Input Result

70	
60	
80	
The candidate	e is eligible
Input Exped	cted Got
70	
60	
80	
The candidate	e is eligible
The candidate	e is eligible
50	
80	
80	
The candidate	e is eligible
The candidate	e is eligible
50	
60	
40	
The candidate	e is not eligible
The candidate	e is not eligible
20	
10	
25	
The candidate	e is not eligible
The candidate	e is not eligible
Question 10	
Question text	
Write a progr	am that returns the second last digit of the given number. Second last digit is being referred

10the digit in the tens place in the given number.

For example, if the given number is 197, the second last digit is 9.

Note1 - The second last digit should be returned as a positive number. i.e. if the given number is -197, the second last digit is 9.

Note2 - If the given number is a single digit number, then the second last digit does not exist. In such cases, the program should return -1. i.e. if the given number is 5, the second last digit should be returned as -1

returned as -1						
For example:						
Input	Result					
197						
9						
5						
-1						
Feedba	ck					
Input	Expected	Got				
197						
9						
9						
-197						
9						
9						
5						
-1						
-1						
123456	j.					
5						
5						
8						
1						

-1

it.
•

Output:
No
For example:
Input Result
24
Yes
Answer:(penalty regime: 0 %)
Feedback
Input Expected Got
24
Yes
Yes
26
No
No
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

Write a program that finds whether the given number N is Prime or not. If the number is prime, the program should return 2 else it must return 1. Assumption: 2 <= N <=5000, where N is the given number. Example1: if the given number N is 7, the method must return 2 Example 2: if the given number N is 10, the method must return 1 For example: Input Result 7 2 10 1 Answer:(penalty regime: 0 %) Feedback Input Expected Got 7 2 2 10 1 1 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
Given a number N, find the next perfect square greater than N.
Input Format:
Integer input from stdin.
Output Format:
Perfect square greater than N.
Example Input:
10
Output:
16
Answer:(penalty regime: 0 %)
Feedback
Input Expected Got

16
16
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
Write a program to find the count of non-repeated digits in a given number N. The number will be passed to the program as an input of type int.
Assumption: The input number will be a positive integer number >= 1 and <= 25000.
Some examples are as below.
If the given number is 292, the program should return 1 because there is only 1 nonrepeated digit '9' in this number
If the given number is 1015, the program should return 2 because there are 2 non-repeated digits in this number, '0', and '5'.
If the given number is 108, the program should return 3 because there are 3 nonrepeated digits in this number, '1', '0', and '8'.
If the given number is 22, the function should return 0 because there are NO nonrepeated digits in this number.

Input Result Answer:(penalty regime: 0 %) Feedback Input Expected Got

Passed all tests!

For example:

Correct
Marks for this submission: 1.00/1.00.
Question 5
Correct
Mark 1.00 out of 1.00
Flag question
Question text
In mathematics, the factorial of a non-negative integer n, denoted by n!, is the product of all positive integers less than or equal to n. For example,
5! = 5 x 4 x 3 x 2 x 1 = 120
4! = 4 x 3 x 2 x 1 = 24
9! = 9 x 8 x 7 x 6 x 5 x 4 x 3 x 2 x 1 = 362880
Write a program to find the factorial of a given number.
The given number will be passed to the program as an input of type int.
The program is expected to calculate the factorial of the given number and return it as an int type.
Assumptions for this program:

Due to the range supported by int. the input numbers will range from 1 to 12.

The given input number will always be greater than or equal to 1.

For example: Input Result 5 120 4 24 9 362880 Answer:(penalty regime: 0 %) Feedback Input Expected Got 5 120 120 4 24 24 9 362880 362880 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
Given a positive integer N, check whether it can be represented as a product of single digit numbers.
Input Format:
Single Integer input.
Output Format:
output Format.
Output displays Yes if condition satisfies else prints No.
Example Input:
14
Output:
Yes
Example Input:
13
Output:
No

Answer:(penalty regime: 0 %)
Feedback
Input Expected Got
14
Yes
Yes
13
No
No
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 7
Correct
Mark 1.00 out of 1.00
Flag question
Question text
Write a program to find the sum of the series $1+11+111+1111+\ldots+n$ terms (n will be given as input from the user and sum will be the output)
Sample Test Cases
Test Case 1
Input

Output
1234
Test Case 2
Input
6
Output
123456
Answer:(penalty regime: 0 %)
Feedback
Input Expected Got
4
1234
1234
6
123456
123456
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 8

Mark 1.00 out of 1.00
Flag question
Question text
Write a program to return the nth number in the fibonacci series.
The value of N will be passed to the program as input.
NOTE: Fibonacci series looks like –
0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, and so on.
i.e. Fibonacci series starts with 0 and 1, and continues generating the next number as the sum of the previous two numbers.
previous two numbers.
• first Fibonacci number is 0,
• second Fibonacci number is 1,
• third Fibonacci number is 1,
• fourth Fibonacci number is 2,
• fifth Fibonacci number is 3,
• sixth Fibonacci number is 5,
• seventh Fibonacci number is 8, and so on.

Correct

Input Result 1 0 4 2 7 8 Answer:(penalty regime: 0 %) Feedback Input Expected Got 1 0 0 4 2 2 7 8 8 Passed all tests! Correct Marks for this submission: 1.00/1.00. Question 9

Correct

Mark 1.00 out of 1.00

For example:

Flag question
Question text
Write a program to find the count of unique digits in a given number N. The number will be passed to the program as an input of type int.
Assumption: The input number will be a positive integer number >= 1 and <= 25000.
For e.g.
If the given number is 292, the program should return 2 because there are only 2 unique digits '2' and '9' in this number
If the given number is 1015, the program should return 3 because there are 3 unique digits in this number, '1', '0', and '5'.
For example:
Input Result
292
2
1015
3
Answer:(penalty regime: 0 %)
Feedback
Input Expected Got
292
2
2
1015

3
3
123
3
3
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 Number is said to be Disarium number when the sum of its digit raised to the power of their respective positions becomes equal to the number itself. Write a program to print number is Disarium or not.
Input Format:
Single Integer Input from stdin.
Output Format:
Yes or No.
Example Input:

Output:
Yes
Explanation
1^1 + 7^2 +5^3 = 175
Example Input:
123
Output:
No
For example:
Input Result 175 Yes 123 No
Answer:(penalty regime: 0 %)
Feedback
Input Expected Got 175 Yes

Yes

123
No
No
Passed all tests!
Week5_Coding
Question 1
Not answered
Mark 0.00 out of 1.00
Flag question
Question text
Given a string S which is of the format USERNAME@DOMAIN.EXTENSION, the program must print the EXTENSION, DOMAIN, USERNAME in the reverse order.
Input Format:
The first line contains S.
Output Format:
The first line contains EXTENSION.
The second line contains DOMAIN.
The third line contains USERNAME.
Boundary Condition:
1 <= Length of S <= 100
Example Input/Output 1:

Input:
abcd@gmail.com
Output:
com
gmail
abcd
For example:
Input Result
arvijayakumar@rajalakshmi.edu.in
edu.in
rajalakshmi
arvijayakumar
Answer:(penalty regime: 0 %)
Question 2
Not answered
Mark 0.00 out of 1.00
Flag question

Question text
Reverse a string without affecting special characters
Given a string S, containing special characters and all the alphabets, reverse the string without affecting the positions of the special characters.
Input:
A&B
Output:
B&A
Explanation: As we ignore '&' and
As we ignore '&' and then reverse, so answer is "B&A".
For example:
Input Result
A&x#
x&A#
Answer:(penalty regime: 0 %)
Question 3
Not answered
Mark 0.00 out of 1.00
Flag question
Question text
Assume that the given string has enough memory.

Don't use any extra space(IN-PLACE)

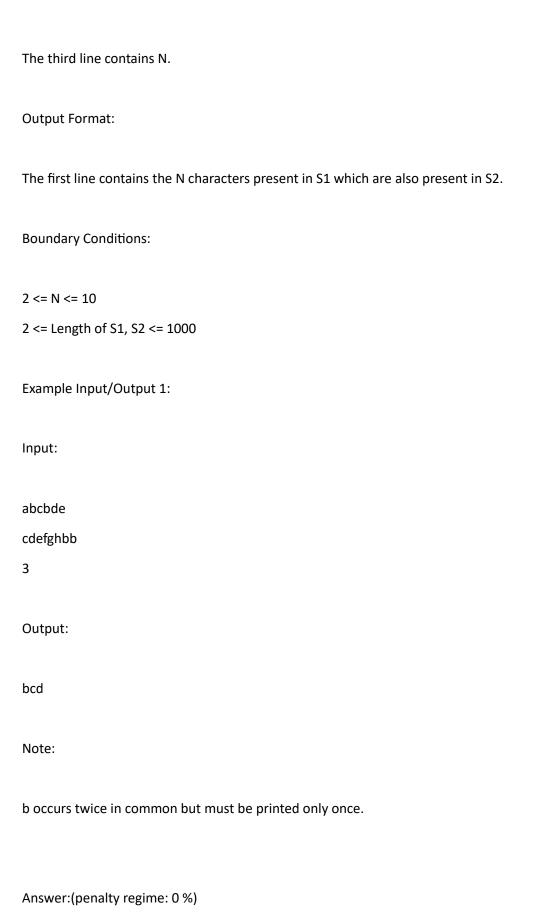
Sample Input 1
a2b4c6
Sample Output 1
aabbbbccccc
Answer:(penalty regime: 0 %)
Question 4
Correct
Mark 1.00 out of 1.00
Flag question
Question text
Write a python program to count all letters, digits, and special symbols respectively from a given string
For example:
Input Result
rec@123

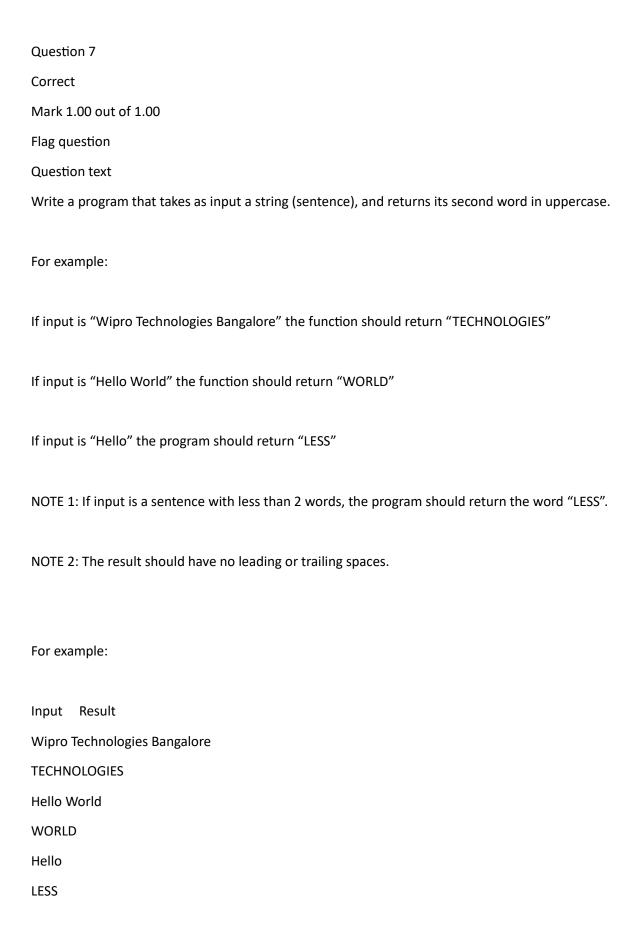
```
3
3
1
Answer:(penalty regime: 0 %)
Feedback
Input Expected
               Got
rec@123
3
3
1
3
3
1
P@#yn26at^&i5ve
8
3
4
8
3
4
abc@12&
3
2
2
3
2
2
```

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 two Strings s1 and s2, remove all the characters from s1 which is present in s2.
Constraints
1<= string length <= 200
Cample Input 1
Sample Input 1
experience
enc

Sample Output 1
xpri
Annual de analtana sina a 0.00
Answer:(penalty regime: 0 %)
Feedback
Input Expected Got
experience
enc
xpri
xpri
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 6
Not answered
Mark 0.00 out of 1.00
Flag question
Question text
Two string values S1, S2 are passed as the input. The program must print first N characters present in S1 which are also present in S2.
Input Format:
····p · - · · · · · · · · ·
The first line contains S1.
The second line contains S2.





Answer:(penalty regime: 0 %)	
Feedback	
Input Expected Got	
Wipro Technologies Bangalore	
TECHNOLOGIES	
TECHNOLOGIES	
Hello World	
WORLD	
WORLD	
Hello	
LESS	
LESS	
Passed all tests!	
Correct	
Marks for this submission: 1.00/1.00.	
Question 8	
Not answered	
Mark 0.00 out of 1.00	
Flag question	
Question text	
String should contain only the words are not palindro	me.

Sample Input 1

Malayalam is my mother tongue
Sample Output 1
Sample Output 1
is my mother tongue
Answer:(penalty regime: 0 %)
Question 9
Correct
Mark 1.00 out of 1.00
Flag question
Question text
Write a program to check if two strings are balanced. For example, strings s1 and s2 are balanced if all the characters in the s1 are present in s2. The character's position doesn't matter. If balanced display as "true" ,otherwise "false".
For example:
Input Result
Yn
PYnative
True
Answer:(penalty regime: 0 %)
Feedback

Input	Expected	Got
Yn		
PYnativ	e	
True		
True		
Ynf		
PYnativ	e	
False		
False		
Passed	all tests!	
Correct		
Marks f	or this submission	on: 1.00/1.00.
Questic	on 10	
Correct		
Mark 1	.00 out of 1.00	
Flag qu	estion	
Questic	on text	
line. Aft	ter the user ente	create a program that reads words from the user until the user enters a blank ers a blank line your program should display each word entered by the user s should be displayed in the same order that they were first entered. For example,
first		
second		
first		
third		

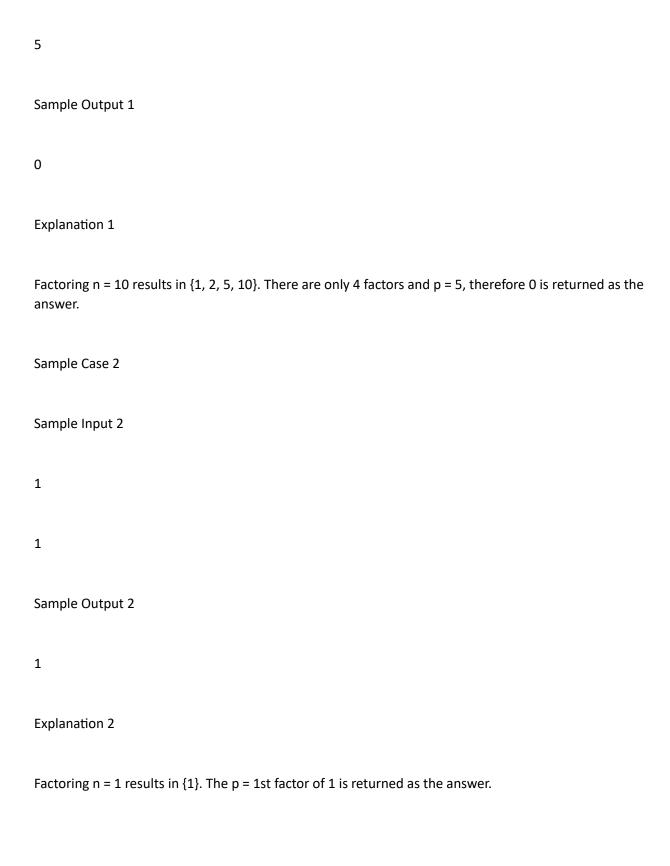
second			
then your program should display:			
first			
second			
third			
Answer	:(penalty regime	: 0 %)	
Feedba	ck		
Input	Expected	Got	
first			
second			
first			
third			
second			
first			
second			
third			
first			
second			
third			
rec			
cse			
it			

rec

cse
rec
cse
it
rec
cse
it
Passed all tests!
Week6_Coding
Question 1
Correct
Mark 1.00 out of 1.00
Flag question
Question text
Determine the factors of a number (i.e., all positive integer values that evenly divide into a number) and then return the pth element of the list, sorted ascending. If there is no pth element, return 0.
Example
n = 20
p = 3
The factors of 20 in ascending order are $\{1, 2, 4, 5, 10, 20\}$. Using 1-based indexing, if $p = 3$, then 4 is returned. If $p > 6$, 0 would be returned.
Constraints

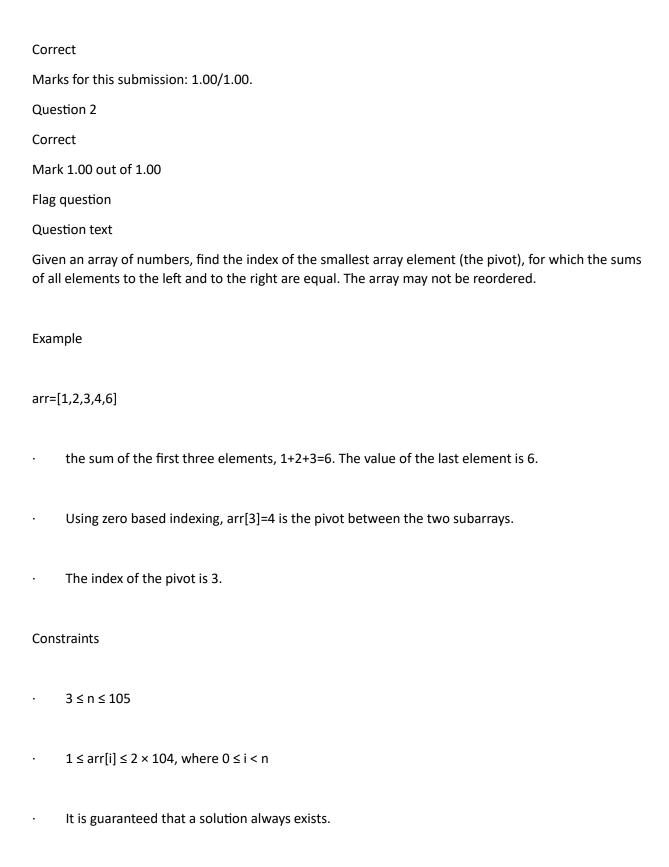
```
1 \le n \le 1015
1 ≤ p ≤ 109
The first line contains an integer n, the number to factor.
The second line contains an integer p, the 1-based index of the factor to return.
Sample Case 0
Sample Input 0
10
3
Sample Output 0
5
Explanation 0
Factoring n = 10 results in \{1, 2, 5, 10\}. Return the p = 3rd factor, 5, as the answer.
Sample Case 1
```

Sample Input 1



For example: Input Result 10 3 5 10 5 0 1 1 1 Answer:(penalty regime: 0 %) Feedback Input Expected Got

Passed all tests!



The first line contains an integer n, the size of the array arr.
Each of the next n lines contains an integer, arr[i], where 0 ≤ i < n.
Sample Case 0
Sample Input 0
4
1
2
3
3
Sample Output 0
2
Explanation 0
The sum of the first two elements, 1+2=3. The value of the last element is 3.

Using zero based indexing, arr[2]=3 is the pivot between the two subarrays.

The index of the pivot is 2.
Sample Case 1
Sample Input 1
3
1
2
1
Sample Output 1
1
Explanation 1
The first and last elements are equal to 1.
 Using zero based indexing, arr[1]=2 is the pivot between the two subarrays.
· The index of the pivot is 1.

For example:

Input Result 4 1 2 3 3 1 2 1 Answer:(penalty regime: 0 %)

Feedback

Input	Expected	Got
4		
1		
2		
3		
3		
2		
2		
3		
1		

1
1
1
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 3
Not answered
Mark 0.00 out of 1.00
Flag question
Question text
Given an array A of sorted integers and another non negative integer k, find if there exists 2 indices i and j such that $A[i] - A[j] = k$, i $!= j$.
Input Format
1. First line is number of test cases T. Following T lines contain:
2. N, followed by N integers of the array
3. The non-negative integer k
Output format
Print 1 if such a pair exists and 0 if it doesn't.
Example

3			
1			
3			
5			
4			
Output:			
1			
Input			
1			
3			
1			
3			
5			

Input

Output

For example:

Input Result

Answer:(penalty regime: 0 %)

Question 4

Incorrect

Mark 0.00 out of 1.00

Flag question
Question text
Write a Python program to check if a given list is strictly increasing or not. Moreover, If removing only one element from the list results in a strictly increasing list, we still consider the list true
Input:
n : Number of elements
List1: List of values
Output
Print "True" if list is strictly increasing or decreasing else print "False"
Sample Test Case
Input
71
2
3
0

```
4
5
6
Output
True
Answer:(penalty regime: 0 %)
Feedback
Input Expected
                   Got
7
1
2
3
0
4
5
6
True
**Run error**
Traceback (most recent call last):
File "_tester_.python3", line 13, in <module>
 if all(temp[j] < temp[j + i] for j in range(len(temp) - 1)):</pre>
   File "_tester_.python3", line 13, in <genexpr>
```

if all(temp[j] < temp[j + i] for j in range(len(temp) - 1)):
IndexError: list index out of range
Testing was aborted due to error.
Your code must pass all tests to earn any marks. Try again.
Incorrect
Marks for this submission: 0.00/1.00.
Question 5
Correct
Mark 1.00 out of 1.00
Flag question
Question text
Complete the program to count frequency of each element of an array. Frequency of a particular element will be printed once.
Sample Test Cases
Test Case 1
Input

7
23
45
23
56
45
23
40
Output

23 occurs 3 times

45 occurs 2 times

56 occurs 1 times

40 occurs 1 times

Answer:(penalty	/ regime: 0 %)
Feedback	
Input Expecte	d Got
7	
23	
45	
23	
56	
45	
23	
40	
23 occurs 3 time	25
45 occurs 2 time	25
56 occurs 1 time	25
40 occurs 1 time	28
23 occurs 3 time	25
45 occurs 2 time	es
56 occurs 1 time	28
40 occurs 1 time	28
Passed all tests!	
Correct	
Marks for this su	ubmission: 1.00/1.00.
Question 6	
Correct	
Mark 1.00 out o	f 1.00
Flag question	

Program to print all the distinct elements in an array. Distinct elements are nothing but the unique (non-duplicate) elements present in the given array.
Input Format:
First line take an Integer input from stdin which is array length n.
Second line take n Integers which is inputs of array.
Output Format:
Print the Distinct Elements in Array in single line which is space Separated
Example Input:
5
1
2
2
3
4
Output:

Question text

Example Input:
6
1
1
2
2
3
3
Output:
123
For everyle:
For example:
Input Result 5
1

```
2
2
3
4
1234
6
1
1
2
2
3
3
123
Answer:(penalty regime: 0 %)
Feedback
Input Expected Got
5
1
2
2
3
4
1234
1234
6
1
1
2
2
```

3
3
123
123
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 7
Not answered
Mark 0.00 out of 1.00
Flag question
Question text
Consider a program to insert an element / item in the sorted array. Complete the logic by filling up required code in editable section. Consider an array of size 10. The eleventh item is the data is to be inserted.
Sample Test Cases
Test Case 1
Input

Output

ITEM to be inserted:2

After insertion array is:

Test Case 2

Input

44		
Output		

ITEM to be inserted:44

After insertion array is:

120
Answer:(penalty regime: 0 %)
Question 8
Correct
Mark 1.00 out of 1.00
Flag question
Question text
Output is a merged array without duplicates.
Input Format
N1 - no of elements in array 1
Array elements for array 1
N2 - no of elements in array 2
Array elements for array2
Output Format
Display the merged array
Sample Input 1

Sample Output 1

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got

22
1 3 4 5 7 8 10 11 12 13 22 30 35
1 3 4 5 7 8 10 11 12 13 22 30 35
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
Write a program to print all the locations at which a particular element (taken as input) is found in a list and also print the total number of times it occurs in the list. The location starts from 1.
For example, if there are 4 elements in the array:
5
6
5
7

If the element to search is 5 then the output will be:
5 is present at location 1
5 is present at location 3
5 is present 2 times in the array.
Sample Test Cases
Test Case 1
Input
4

6
5
7
5
Output
5 is present at location 1.
5 is present at location 3.
5 is present 2 times in the array.
Test Case 2
Input

5	
67	
80	
45	
97	
100	
50	
Output	
50 is not present in the array.	
Answer:(penalty regime: 0 %)	
Feedback	

Input	Expected	Got
4		
5		
6		
5		
7		
5		
5 is pre	sent at locati	on 1.
5 is pre	sent at locati	on 3.
5 is pre	sent 2 times	in the array.
5 is pre	sent at locati	on 1.
5 is pre	sent at locati	on 3.
5 is pre	sent 2 times	in the array.
5		
67		
80		
45		
97		
100		
50		
50 is no	ot present in t	the array.
50 is no	ot present in t	the array.
Passed	all tests!	
Correct	İ	
Marks	for this subm	ission: 1.00/1.00.
Questio	on 10	
Correct	t	
	_	

Mark 1.00 out of 1.00

Flag question
Question text
Write a Python program to Zip two given lists of lists.
Input:
m : row size
n: column size
ii. Columni size
list1 and list 2 : Two lists
Output
Zipped List: List which combined both list1 and list2
Sample test case
Sample input
Sample input
2
2
1
3
_
5

```
7
```

Sample Output

[[1, 3, 2, 4], [5, 7, 6, 8]]

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got

[[1, 2, 5, 6], [3, 4, 7, 8]]

[[1, 2, 5, 6], [3, 4, 7, 8]]

Passed all tests!

Week7_Coding

Question 1
Correct
Mark 1.00 out of 1.00
Flag question
Question text
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:
12865
26810
Sample Output:

1 5 10

Sample Output:

NO SUCH ELEMENTS

For example:

Input Result

5 4

12865

26810

1510

3

5 5

12345

NO SUCH ELEMENTS

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got

5 4

12865

26810

1 5 10

3

1 5 10

3

3 3

10 10 10

10 11 12

11 12

2

11 12

2

5 5

12345

12345

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
Flag question
Question text
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		
Dad		
Peace		
Alaska		
Dad		
2		
adsfd		
afd		
adsfd		
afd		
Answer	:(penalty regi	me: 0 %)
Feedba	ck	
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
Flag question
Question text
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 %) Feedback 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

Passed all tests!

Correct
Marks for this submission: 1.00/1.00.
Question 4
Incorrect
Mark 0.00 out of 1.00
Flag question
Question text
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 %)
Feedback
Input Expected
hello world
ad
1
Welcome to REC
e
1
Faculty Upskilling in Python Programming
ak
2
Your code must pass all tests to earn any marks. Try again.
Incorrect
Marks for this submission: 0.00/1.00.
Question 5
Correct
Mark 1.00 out of 1.00
Flag question
Question text
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 = "AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT" Output: ["AAAAACCCCC","CCCCCAAAAA"] Example 2: Input: s = "AAAAAAAAAAAA" Output: ["AAAAAAAAAA"] For example: Input Result AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT AAAAACCCCC CCCCAAAAA Answer:(penalty regime: 0 %)

Feedback

```
Input Expected
                      Got
AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT
AAAAACCCCC
CCCCCAAAAA
AAAAACCCCC
CCCCCAAAAA
AAAAAAAAAAA
AAAAAAAAA
AAAAAAAAA
Passed all tests!
Week8_Coding
Question 1
Correct
Mark 1.00 out of 1.00
Flag question
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 Johny get maximum votes. Since John is alphabetically smaller, we print it. Use dictionary to solve the above problem
Sample Input:
10
John
John
Johny
Jamie
Jamie
Johny
Jack

Johny	
Johny	
Jackie	
Sample Output:	
Johny	
Answer:(penalty regime: 0 %)	

Feedback

10
John
John
Johny
Jamie
Jamie
Johny
Jack
Johny
Johny
Jackie
Johny
Johny
6
Ida
Ida
Ida
Kiruba
Kiruba
Kiruba
Ida
Ida
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 2
Incorrect

Input Expected

Got

Flag question
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 as 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

Mark 0.00 out of 1.00

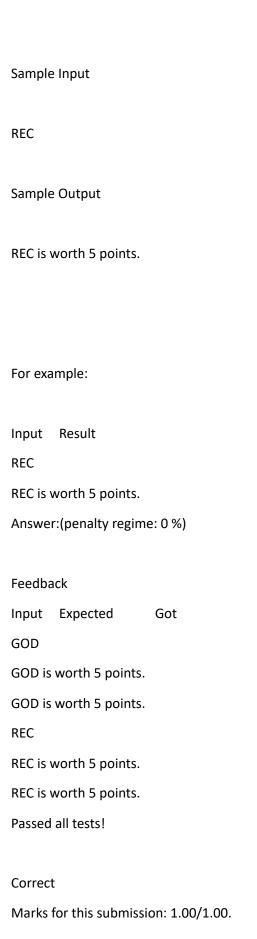
Sita /0 /0 /0
Sample Output:
Ram
James Ram
Lalith
Lalith
For example:
Input Result
4
James 67 89 56
Lalith 89 45 45
Ram 89 89 89

Sita 70 70 70

Ram
James Ram
Lalith
Lalith
Answer:(penalty regime: 0 %)
Feedback
Input Expected
4
James 67 89 56
Lalith 89 45 45
Ram 89 89 89
Sita 70 70 70
Ram
James Ram
Lalith
Lalith
3
Raja 95 67 90
Aarav 89 90 90
Shadhana 95 95 91
Shadhana
Shadhana
Aarav Raja
Raja
Your code must pass all tests to earn any marks. Try again.
Incorrect
Marks for this submission: 0.00/1.00.
Question 3

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.

Correct



Question 4

Not answered

Mark 0.00 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 s1 and s2, return a list of all the uncommon words. You may return the answer in any order.

Example 1:

Input: s1 = "this apple is sweet", s2 = "this apple is sour"

Output: ["sweet", "sour"]

Example 2:

Input: s1 = "apple apple", s2 = "banana"

Output: ["banana"]

Constraints:

1 <= s1.length, s2.length <= 200

s1 and s2 consist of lowercase English letters and spaces.

s1 and s2 do not have leading or trailing spaces.

All the words in s1 and s2 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 %)
Feedback
Input Expected
                       Got
this apple is sweet
this apple is sour
sweet sour
**Run error**
Traceback (most recent call last):
File "_tester_.python3", line 13, in <module>
  result=uncommon_words(s1,s2)
      NameError: name 'uncommon_words' is not defined
Testing was aborted due to error.
Your code must pass all tests to earn any marks. Try again.
Incorrect
Marks for this submission: 0.00/1.00.
Question 5
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:

Best 10

```
Gfg 12
Passed all tests!
Week9_Coding
Question 1
Correct
Mark 1.00 out of 1.00
Flag question
Question text
Given a number with maximum of 100 digits as input, find the difference between the sum
of odd and even position digits.
Input Format:
Take a number in the form of String from stdin.
Output Format:
Print the difference between sum of even and odd digits
Example input:
1453
Output:
1
Explanation:
Here, sum of even digits is 4 + 3 = 7
sum of odd digits is 1 + 5 = 6.
Difference is 1.
Note that we are always taking absolute difference
Answer:(penalty regime: 0 %)
Feedback
        Expected
                       Got
Test
print(differenceSum(1453))
```

1

```
Correct
Marks for this submission: 1.00/1.00.
Question 2
Correct
Mark 1.00 out of 1.00
Flag question
Question text
A number is considered to be ugly if its only prime factors are 2, 3 or 5.
[1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, ...] is the sequence of ugly numbers.
Task:
complete the function which takes a number n as input and checks if it's an ugly number.
return ugly if it is ugly, else return not ugly
Hint:
An ugly number U can be expressed as: U = 2^a * 3^b * 5^c, where a, b and c are nonnegative integers.
For example:
Test
        Result
print(checkUgly(6))
ugly
print(checkUgly(21))
not ugly
Answer:(penalty regime: 0 %)
Feedback
Test
        Expected
                        Got
print(checkUgly(6))
ugly
ugly
print(checkUgly(21))
```

Passed all tests!

not ugly
not ugly
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 3
ncorrect
Mark 0.00 out of 1.00
Flag question
Question text
complete function to implement coin change making problem i.e. finding the minimum
number of coins of certain denominations that add up to given amount of money.
The only available coins are of values 1, 2, 3, 4
nput Format:
nteger input from stdin.
Output Format:
return the minimum number of coins required to meet the given target.
Example Input:
16
Output:
1
Explanation:
We need only 4 coins of value 4 each
Example Input:
25
Output:
7
Explanation:

We need 6 coins of 4 value, and 1 coin of 1 value

```
Answer:(penalty regime: 0 %)
Feedback
        Expected
Test
                        Got
print(coinChange(16))
16
Some hidden test cases failed, too.
Your code must pass all tests to earn any marks. Try again.
Incorrect
Marks for this submission: 0.00/1.00.
Question 4
Correct
Mark 1.00 out of 1.00
Flag question
Question text
An e-commerce company plans to give their customers a special discount for Christmas.
They are planning to offer a flat discount. The discount value is calculated as the sum of all
the prime digits in the total bill amount.
Write an algorithm to find the discount value for the given total bill amount.
Constraints
1 <= orderValue< 10e100000
Input
The input consists of an integer orderValue, representing the total bill amount.
Output
Print an integer representing the discount value for the given total bill amount.
Example Input
578
Output
```

Output:

Yes

Explanation
The proper divisors of 12 are: 1, 2, 3, 4, 6, whose sum is $1 + 2 + 3 + 4 + 6 = 16$. Since sum of
proper divisors is greater than the given number, 12 is an abundant number.
Example input:
13
Output:
No
Explanation
The proper divisors of 13 is: 1, whose sum is 1. Since sum of proper divisors is not greater
than the given number, 13 is not an abundant number.
For example:
Test Result
print(abundant(12))
Yes
print(abundant(13))
No
Feedback
Test Expected Got
print(abundant(12))
Yes
Yes
print(abundant(13))

No

No