CS23336-Introduction to Python Programming

Started on Wednesday, 7 August 2024, 1:30 PM

State Finished

Completed on Wednesday, 7 August 2024, 2:18 PM

Time taken 48 mins 19 secs **Marks** 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct
Mark 1.00 out of 1.00

Flag question

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

```
1 x=int(input())
2 y=(x-500)/130
3 y=abs(y)
4 z=y+10
5 print("weekdays {:.2f}".format(z),"\nweekend {:.2f}".format(y),sep='')
```

Input Expected Got

```
weekdays 10.38 weekdays 10.38
450
      weekend 0.38 weekend 0.38
      weekdays 10.00 weekdays 10.00
500
      weekend 0.00 weekend 0.00
      weekdays 83.08 weekdays 83.08
10000
      weekend 73.08 weekend 73.08
      weekdays 58.38 weekdays 58.38
6789
      weekend 48.38 weekend 48.38
```

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 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

For example:

Input Result

```
Answer:(penalty regime: 0 %)
   1 a=input()
   2 = if len(a) == 1:
  3
         print("-1")
   4 ▼ elif len(a)>1:
   5
          print(a[-2])
```

Input Expected Got

- 197 9 9 -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

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 Your total refund will be \$7.00.

```
Answer:(penalty regime: 0 %)
   1 a=int(input())
   2 b=int(input())
  3 sum1=a*.10
   4 sum2=b*.25
     print(f"Your total refund will be ${tot:.2f}.")
```

Input			Expe	cted					Go	t		
20 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.

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

In department 54% are boys and 46% are girls and 8% are hostel (boys/girls). write a python code to print total no of boys, girls and hostel students in the specific format using modulo operator.

input: 1500

output: Total Students: 1500, Boys: 810, Girls: 690, Hostel: 120

Answer:(penalty regime: 0 %)

```
1 a=int(input())
2 b=int((54/100)*a)
3 c=int((46/100)*a)
4 d=int((8/100)*a)
5 print("Total Students: ",a,", Boys: ",b,", Girls: ",c,", Hostel: ",d,sep='')
```

Feedback

```
Input Expected Got

1500 Total Students: 1500, Boys: 810, Girls: 690, Hostel: 120 Total Students: 1500, Boys: 810, Girls: 690, Hostel: 120
```

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

You went on a tour to Ooty with your friends. As a part of the tour, you went boating with them. For the boat to remain stable, the number of people on one boat is restricted based on the weight of the people. You find that the boatman who is sailing your boat is so much greedy of money. For earning more, he takes too many people to travel in the boat at a time. So you want to check how many people can travel in the boat at a time so that the boat will not drown. Calculate the weight by considering the number of adults and number of children. Assume that an adult weighs 75 kg and children weigh 30 kg each. If the weight is normal, display Boat is stable, else display Boat will drown.

INPUT & OUTPUT FORMAT:

Input consists of 3 integers.

First input corresponds to the weight that the boat can handle.

Second input corresponds to the number of adults.

Third input corresponds to the number of children.

Answer:(penalty regime: 0 %)

```
1 a=int(input())
2 b=int(input())
3 c=int(input())
4 x=(b*75)+(c*30)
5* if x<=a:
6 print("Boat is stable")
7* else:
8 print("Boat will drow")
```

Feedback

Input Expected Got

```
340
2 Boat is stable Boat is stable
3
600
7 Boat will drow Boat will drow
4
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Ouestion 6

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:

For example:

16000

Input Result

10000 16000

Answer:(penalty regime: 0 %)

```
1 a=int(input())
2 basic=int(a*(40/100))
3 rent=int(a*(20/100))
4 print(basic+rent+a)
```

Feedback

Input Expected Got

10000	16000	16000
20000	32000	32000
28000	44800	44800
5000	8000	8000

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

In a Lab 36% are Dell and 34% Lennovo and 28% are Acer and 2% are Samsung. write a python code to print total systems and brand wise count in the specific format using sep operator.

input: 150

output: Total System:150

Dell:54

Lennovo:51

Acer:42

Samsung:3

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got

Total System:150 Total System:150
Dell:54
Dell:54
Lennovo:51
Acer:42
Samsung:3
Dell:54
Lennovo:51
Acer:42
Samsung:3

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 8

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,<class 'int'>

10.9 10.9,<class 'float'>

Answer:(penalty regime: 0 %)

Feedback

Input	Expected	Got
10	10, <class 'int'=""></class>	10, <class 'int'=""></class>
10.9	10.9, <class 'float'=""></class>	10.9, <class 'float'=""></class>
12	12, <class 'int'=""></class>	12, <class 'int'=""></class>
12.5	12.5, <class 'float'=""></class>	12.5, <class 'float'=""></class>
89	89, <class 'int'=""></class>	89, <class 'int'=""></class>
7.56	7.6, <class 'float'=""></class>	7.6, <class 'float'=""></class>
55000	55000, <class 'int'=""></class>	55000, <class 'int'=""></class>
56.2	56.2, <class 'float'=""></class>	56.2, <class 'float'=""></class>
2541	2541, <class 'int'=""></class>	2541, <class 'int'=""></class>
2541.679	2541.7, <class 'float'=""></class>	2541.7, <class 'float'=""></class>

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

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:

Answer:(penalty regime: 0 %)

Feedback

Input		Expected	Got			
	10000 250 15000	46.34 is the gain percent. 46.34	is the gain percent.			
	45500 500 60000	30.43 is the gain percent. 30.43	is the gain percent.			
	5000 0 7000	40.00 is the gain percent. 40.00	is the gain percent.			
	12500 5000 18000	2.86 is the gain percent. 2.86 i	is the gain percent.			

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

In a Logistic the Parcels to be delivered in 4 locations (1st locaion 20%, 2nd location 40%, 3rd location 30% and 4th

location 10%). write a python code to find the total no. of parcels after the delivery in 2 locations . use a format() to print the no of parcels delivered in in each location

Input:

250

output:

Total Parcels is 250

1st Location 50 parcels

2nd Location 100 parcels

3rd Location 75 parcels

4th Location 25 parcels

Answer:(penalty regime: 0 %)

```
1 t=int(input())
   a=int(t*(20/100))
3 b=int(t*(40/100))
4 c=int(t*(30/100))
5 d=int(t*(10/100))
6 print("Total Parcels is",t)
   print("1st Location",a,"parcels")
8 print("2nd Location",b,"parcels")
9 print("3rd Location",c,"parcels")
10 print("4th Location",d,"parcels")
```

Feedback

Input **Expected** Got

Total Parcels is 250 Total Parcels is 250 1st Location 50 parcels 1st Location 50 parcels 250 2nd Location 100 parcels 2nd Location 100 parcels 3rd Location 75 parcels 3rd Location 75 parcels 4th Location 25 parcels 4th Location 25 parcels

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6 This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page

Show one page at a time Finish review

CS23336-Introduction to Python Programming

Started on Wednesday, 7 August 2024, 2:34 PM

State Finished

Completed on Wednesday, 7 August 2024, 3:49 PM

Time taken 1 hour 14 mins **Marks** 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

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.

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 False

Input Expected Got

```
32
43 False False
273
7890 True True
800
4590 False False
6789
32996 True True
```

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

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.

Hint.

Use ASCII values of C and D.

Input Format:

An integer x, 0 <= x <= 1.

Output Format:

output a single character "C" or "D" depending on the value of ${\bf x}.$

```
Input 1: 0

Output 1: C

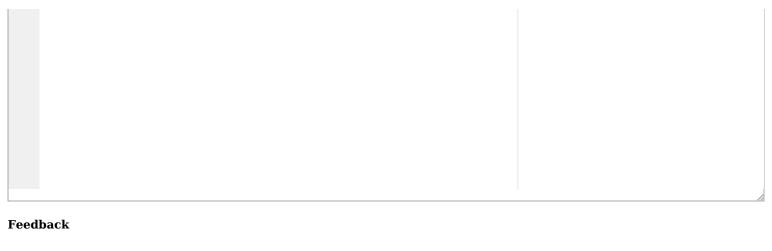
Input 2: 1

Output 1: D
```

For example:

Input Result

С



Input Expected Got

С C

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

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 7

```
Answer:(penalty regime: 0 %)
  1 a=int(input())
  2 a=abs(a)
  3 print(a%10)
```

Input Expected Got

197 7 - 197

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

Complete the program to convert days into years, month and days. (Ignoring leap year and considering 1 month is 30 days)

Sample Test Cases

Test Case 1

Input

375

Output

YEARS: 1 MONTH: 0 DAYS: 10

Test Case 2

Input

200

Output

YEARS: 0 MONTH: 6 DAYS: 20

Answer:(penalty regime: 0 %)

```
1 a=int(input())
2 years=a//365
3 remaining=a%365
4 months=remaining//30
5 remaining=remaining%30
6 days=remaining
7 print(f"YEARS: {years} MONTH: {months} DAYS: {days}")
```

Feedback

Input **Expected** Got 375 YEARS: 1 MONTH: 0 DAYS: 10 YEARS: 1 MONTH: 0 DAYS: 10 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

Write a program to find whether the given input number is Even.

If the given number is even, the function should return 2 else it should return 1.

Note: The number passed to the program can either be negative, positive or zero. Zero should be treated as Even.

For example:

Input Result

100 2

1001 1

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got

 100
 2
 2

 1001
 1
 1

 0
 2
 2

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

Note:

Dont 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.

Input Format:

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

Output Format:

Display True(IF ELIGIBLE)

Display False (if not eligible)

Sample Input

19

45

Sample Output

True

For example:

Input Result

18 False

Answer:(penalty regime: 0 %)

```
1 a=int(input())
2 b=int(input())
3 print((a>=18)and(b>40))
```

Feedback

Input Expected Got

19 45	True	True
18 40	False	False
18 42	True	True

45 False False

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

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.

Answer:(penalty regime: 0 %)

	cr.(penarty regime: 6 70)	
1	a=int(input())	
2	b=int(input())	
3	cal=(a*75)+(b*112)	
4	<pre>print(f"The total weight of all these widgets and gizmos is {cal} grams.")</pre>	
		- A

Feedback

Input Expected Got

 $\begin{array}{c} 10 \\ 20 \end{array}$ The total weight of all these widgets and gizmos is 2990 grams. The total weight of all these widgets and gizmos is 2990 grams.

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

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

-197 7

Answer:(penalty regime: 0 %)

```
1 a=int(input())
2 a=abs(a)
3 print(a%10)
```

Feedback

Input Expected Got

197 7 7

-197 7 7

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

Rohit wants to add the last digits of two given numbers.

For example,

If the given numbers are 267 and 154, the output should be 11.

Below is the explanation:

Last digit of the 267 is 7

Last digit of the 154 is 4

Sum of 7 and 4 = 11

Write a program to help Rohit achieve this for any given two numbers.

Note: Tile sign of the input numbers should be ignored.

i.e.

if the input numbers are 267 and 154, the sum of last two digits should be 11

if the input numbers are 267 and -154, the slim of last two digits should be 11

if the input numbers are -267 and 154, the sum of last two digits should be 11

if the input numbers are -267 and -154, the sum of last two digits should be 11

For example:

Input Result

```
267
154
11
267
11
```

-154

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got

267 154 11 11 267 -154 11 11

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 10

Correct

Mark 1.00 out of 1.00

Flag guestion

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

Exp.	lanation:

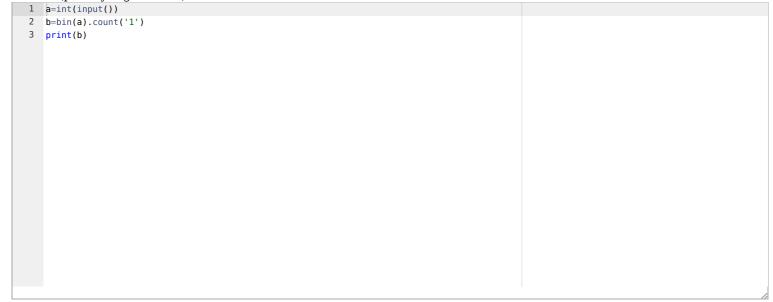
The binary representation of 3 is 011, hence there are 2 ones in it. so the output is 2.

For example:

Input Result

3 2

Answer:(penalty regime: 0 %)



Feedback

Input Expected Got

3 2 2

5 2

15 4

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6 This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page

Show one page at a time Finish review

CS23336-Introduction to Python Programming

Started on Wednesday, 14 August 2024, 2:00 PM

State Finished

Completed on Friday, 16 August 2024, 1:17 PM

Time taken 1 day 23 hours **Marks** 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct
Mark 1.00 out of 1.00

Flag guestion

Ouestion text

The Chinese zodiac assigns animals to years in a 12 year cycle. One 12 year cycle is shown in the table below. The pattern repeats from there, with 2012 being another year of the dragon, and 1999 being another year of the hare.

Year Animal

2000 Dragon

2001 Snake

2002 Horse

2003 Sheep

2004 Monkey

2005 Rooster

2006 Dog

2007 Pig

2008 Rat

2009 Ox

2010 Tiger

2011 Hare

Write a program that reads a year from the user and displays the animal associated with that year. Your program should work correctly for any year greater than or equal to zero, not just the ones listed in the table.

Sample Input 1

2010

Sample Output 1

2010 is the year of the Tiger.

Sample Input 2

2020

Sample Output 2

2020 is the year of the Rat.

```
1  a=int(input())
2 * if(a%12==8):
3     print(f"{a} is the year of the Dragon.")
4 - elif(a%12==9):
5     print(f"{a} is the year of the Snake.")
```

```
6 = elif(a%12==10):
7 print(f"{a} is the year of the Horse.")
 8 = elif(a%12==11):
 9
       print(f"{a} is the year of the Sheep.")
10 = elif(a%12==0):
11
      print(f"{a} is the year of the Monkey.")
12 - elif(a%12==1):
13
       print(f"{a} is the year of the Rooster.")
14 • elif(a%12==2):
      print(f"{a} is the year of the Dog.")
16 = elif(a%12==3):
        print(f"{a} is the year of the Pig.")
17
18 - elif(a%12==4):
       print(f"{a} is the year of the Rat.")
20 * elif(a%12==5):
       print(f"{a} is the year of the 0x.")
22 = elif(a%12==6):
23
       print(f"{a} is the year of the Tiger.")
24 - else:
       print(f"{a} is the year of the Hare.")
```

Input Expected Got

2010 2010 is the year of the Tiger. 2010 is the year of the Tiger.

2020 2020 is the year of the Rat. 2020 is the year of the Rat.

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

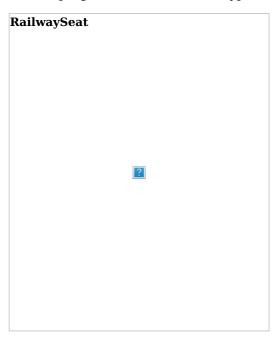
Question 2

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Write a program to determine the type of berth when the seat / berth number in the train is given.



Input Format:

Input consists of a single integer. Assume that the range of input is between 1 and 72.

Output Format:

Output consists of a single string. [Upper or Middle or Lower or Side Lower or Side Upper]

Sample Input 1:

9

Sample Output 1:

Lower Berth

Answer:(penalty regime: 0 %)

Feedback

Input	Expected	Got
9	Lower Berth	Lower Berth
72	Side Upper Berth	Side Upper Berth

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

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.

Sample Input 2

2000

Sample Output 2

2000 is a leap year.

Answer:(penalty regime: 0 %)

Feedback

Input	Expected						Got				
1900	1900	is	not	a lea	p :	year.	1900	is	not	a leap	year.
2000	2000	is	a le	ap ye	ar		2000	is	a le	eap yea	r.
2100	2100	is	not	a lea	p ː	year.	2100	is	not	a leap	year.
2020	2020	is	a le	ap ye	ar		2020	is	a le	eap yea	r.

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 calculate and print the Electricity bill where the unit consumed by the user is given from test case. It prints the total amount the customer has to pay. The charge are as follows:

Unit Charge / Unit
Upto 199 @1.20
200 and above but less than 400 @1.50

```
400 and above but less than 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

Answer:(penalty regime: 0 %)

```
1 a=float(input())
 2 = if(a<200):
       chrg=(a*1.20)
 4 = elif(a<400):
       chrg=(a*1.50)
 6 - elif(a<600):
 7
       chrg=a*1.80
8 ⋅ else:
9
       chrg=a*2.00
10
11 - if chrg>400:
12 chrg*=1.15
13 - if chrg<100:
14 chrg=100
15 print("%.2f"%chrg)
```

Feedback

Input Expected Got

50	100.00	100.00
100.00	120.00	120.00
500	1035.00	1035.00
700	1610.00	1610.00

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 an integer N, check whether N the given number can be made a perfect square after adding 1 to it. Input Format: Single integer input. Output Format: Yes or No. Example Input: 24 Output: Yes Example Input: 26 Output: No For example: **Input Result** 24 Yes Answer:(penalty regime: 0 %) 1 a=int(input()) 2 b=a+1

```
3 c=int(b**0.5)
4 = if c**2==b:
5
      print("Yes")
6 - else:
      print("No")
```

Feedback

Input Expected Got

24 Yes Yes

No

26

No

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

A certain type of steel is used to test and give grade according to the following conditions.

- 1. Hardness of the steel must be greater than 50
- 2. Carbon content of the steel must be less than 0.7
- 3. Tensile strength must be greater than 5600

The grades awarded are as follows:

- Grade is 10 if all three conditions are met
- Grade is 9 if conditions (1) and (2) are met
- Grade is 8 if conditions (2) and (3) are met
- Grade is 7 if conditions (1) and (3) are met
- Grade is 6 if only one condition is met
- Grade is 5 if none of the three conditions are met

Write a program to display the grade of the steel, based on the values of hardness, carbon content and tensile strength of the steel, given by the user.

Input

53

0.6

5602

Output:

10

```
1 a=int(input())
 b=float(input())
 3 c=int(input())
 4 = if(a>50 \text{ and } b<0.7 \text{ and } c>5600):
 5
        print("10")
 6 - elif(a>50 and b<0.7):
 7
        print("9")
 8 = elif(b<0.7 \text{ and } c>5600):
 9
       print("8")
10 = elif(a>50 \text{ and } c>5600):
11
        print("7")
12 - elif(a>50 or b<0.7 or c>5600):
       print("6")
14 else:
15
        print("5")
16
```

Input Expected Got

```
53
0.6
       10
                    10
5602
45
       6
                    6
4500
```

Passed all tests!

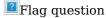
Correct

Marks for this submission: 1.00/1.00.

Question 7

Correct

Mark 1.00 out of 1.00



Question text

Write a program that accepts 5 inputs and returns the count of how many of those 5 are odd.

For example,

If the five inputs are 12, 17, 19, 14, and 115, there are three odd numbers 17, 19 and 115. So, the program must return 3.

Similarly,

If the five inputs are 15, 0, -12, 19, and 28, there are two odd numbers 15 and 19. So, the program must return 2.

Observe that zero is considered an even number.

For example:

Input Result

```
12
17
19
       3
14
115
15
-12
       2
19
28
```

```
1 count=0
 2 = for i in range(5):
 3
        n=int(input())
 4 -
        if n%2!=0:
 5
            count+=1
 6 print(count)
```

Input Expected Got

```
12
17
19 3 3
14
115
15
0
-12 2 2
19
28
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Write a Python program that accepts three parameters. The first parameter is an integer. The second is one of the following mathematical operators: +, -, /, or *. The third parameter will also be an integer.

The function should perform a calculation and return the results. For example, if the function is passed 6 and 4, it should return 24.

Sample Input Format:

11

14

Sample Output Format:

25

Input Expected Got

11 + 14	25	25
45 - 50	-5	-5
12 * 100	1200	1200
18 / 2	9.0	9.0

Passed all tests!

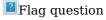
Correct

Marks for this submission: 1.00/1.00.

Question 9

Correct

Mark 1.00 out of 1.00



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** OUT Answer:(penalty regime: 0 %) 1 a=int(input()) b=int(input()) 3 c=a//2 4 = if(b>=c): print("IN") 6 - else: print("OUT") Feedback Input Expected Got 8 3 0UT OUT 8 IN IN 5 20 0UT 0UT 50 IN IN 31

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 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 triangle Sample Input 2 40

Sample Output 2

That's a isosceles triangle

Sample Input 3

40 80

50

60

70

Sample Output 3

That's a scalene triangle

For example:

Input Result 60 60 That's a equilateral triangle 60 40 40 That's a isosceles triangle 80

```
1 a=int(input())
2 b=int(input())
3 c=int(input())
4 if(a==b==c):
5    print("That's a equilateral triangle")
6 * elif (a!=b)and(b!=c)and(c!=a):
7    print("That's a scalene triangle")
8 - else:
9    print("That's a isosceles triangle")
```

Input		Expected		Got	
60 60 60	That's a	equilateral triangl	e That's a	equilateral	triangle
40 40 80	That's a	isosceles triangle	That's a	isosceles t	riangle
50 60 70	That's a	scalene triangle	That's a	scalene tri	angle
50 50 80	That's a	isosceles triangle	That's a	isosceles t	riangle
10 10 10	That's a	equilateral triangl	eThat's a	equilateral	triangle

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6 This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page

Show one page at a time Finish review

CS23336-Introduction to Python Programming

Started on Tuesday, 27 August 2024, 10:00 PM

State Finished

Completed on Wednesday, 28 August 2024, 1:40 PM

Time taken 15 hours 40 mins **Marks** 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct
Mark 1.00 out of 1.00

Flag question

Ouestion text

Write a program to find the count of the number of prime numbers in a specified range.

The starting and ending number of the range will be provided as input to the program.

Assumption: 2 <=starting number of the range<= ending number of the range<=7919

Example1: If the starting and ending number or the range is given as 2 and 20, the program must return 8, because there are 8 prime numbers in the specified range from 2 to 20. namely (2. 3. 5, 7, 11, 13, 17, 19)

Example 2: If the starting and ending number of the range is given as 700 and 725, the program must return 3, because there are 3 prime numbers in the specified range from 700 to 725, namely (701, 709, 719)

For example:

Input Result

Answer:(penalty regime: 0 %)

```
1 a=int(input())
2 b=int(input())
3 count=0
4 =  for i in range(a,b+1):
5 -
        if i>1:
6 ∞
            for j in range(2,i):
7 ∞
                if(i%j)==0:
8
                    break
9 -
            else:
10
                count+=1
11 print(count)
```

Feedback

```
2
20 8 8
700
725 3 3
```

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 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 non-repeated 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 non-repeated digits in this number, '1', '0', and '8'.

If the given number is 22, the function should return 0 because there are NO non-repeated digits in this number.

For example:

Input Result

Input Expected Got

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

Write python program to print the following pattern based on input size.

Input:

3

Output:

1 23 456

For example:

Input Result

```
1
2 3
4 5 6
7 8 9 10
```

Input Expected Got

1

```
3 2 3 2 3
4 5 6 4 5 6
1 1
4 2 3 2 3
4 5 6 4 5 6
7 8 9 10 7 8 9 10
```

Passed all tests!

Correct

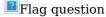
Marks for this submission: 1.00/1.00.

1

Question 4

Correct

Mark 1.00 out of 1.00



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.

Input

The input consists of an integer order value, representing the total bill amount.

Output

Print an integer representing the discount value for the given total bill amount.

Example Input

578

Output

12

Explanation:

Since 5 and 7 are the prime digits, then sum of 5+7=12

```
1 n=input()
 2 add=0
 3 * for digit in n:
 4
        digit=int(digit)
5 =
        if digit>1:
 6
            prime=True
 7
            i=2
 8 🌚
            while i*i<=digit:</pre>
 9 =
                if digit%i==0:
10
                    prime=False
11
                    break
12
13 -
            if prime:
14
                add+=digit
15 print(add)
```

Input Expected Got

```
578 12 12
456 5 5
7032 12 12
```

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

Let's print a chessboard!

Write a program that takes input:

Integer N(represents the rows and columns of a chessboard) and also the starting character of the chessboard

Output Format

Print the chessboard as per the given examples

Sample Input / Output

Input:

2

W

Output:

WB

BW

Answer:(penalty regime: 0 %)

```
1 n=int(input())
 2 a=input()
 3 - if a.upper()=='W':
 4
      b='B'
5 

else:
      b='W'
 7
8 ∞ for i in range(n):
9 ⇒ for j in range(n):
10 =
           if (i+j)%2==0:
              print(a,end='')
11
12 =
           else:
         print(b,end='')
13
14
      print()
```

Feedback

```
2
        WB
                    WB
        BW
                    BW
        BWB
                    BWB
        WBW
                    WBW
        BWB
                    BWB
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

An automorphic number is a number whose square ends with the number itself.

For example, 5 is an automorphic number because 5*5 = 25. The last digit is 5 which same as

the given number.

If it is an automorphic number display "Automorphic" else display "Not Automorphic".

Input Format:

Take a Integer from Keyboard

Output Format:

Print Automorphic if given number is Automorphic number, otherwise Not Automorphic

Example input:

5

Output:

Automorphic

Example input:

25

Output:

Automorphic

Example input:

Output:

Not Automorphic

```
Answer:(penalty regime: 0 %)
```

```
1 n=int(input())
   s=n*n
3 l=len(str(n))
4 * if s%(10**l)==n:
5
      print("Automorphic")
6 = else:
       print("Not Automorphic")
```

Input	t Expected	Got
5	Automorphic	Automorphic
625	Automorphic	Automorphic
7	Not Automorphi	c Not Automorphic

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

Given an integer N, check whether N the given number can be made a perfect square after adding to it.

Input Format:

Single integer input.

Output Format:

Yes or No.

Example Input:

24

Output:

Example Input:

26

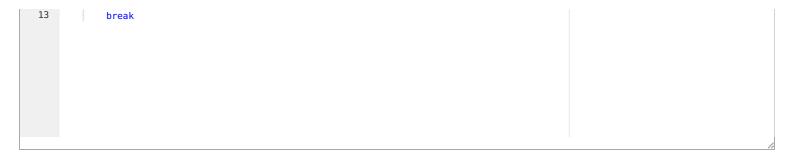
Output: No

For example:

Input Result

24 Yes

```
1 n=int(input())
 2 m=1
3 ∞ while True:
 4
       s=m*m
5 🖘
       if s>=n:
 6
           x=s-n
           if x>0:
 8
               print("Yes")
 9
               break
10
       m+=1
11 🖘
       if m*m-n>m:
12
          print("No")
```



Input Expected Got

24 Yes Ye
26 No No

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 8

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Write a program to find the count of the number of prime numbers in a specified range.

The starting and ending number of the range will be provided as input to the program.

Assumption: 2 <= starting number of the range <= ending number of the range <= 7919

Example1: If the starting and ending number or the range is given as 2 and 20, the program must return 8, because there are 8 prime numbers in the specified range from 2 to 20. namely (2. 3. 5, 7, 11, 13, 17, 19)

Example 2: If the starting and ending number of the range is given as 700 and 725, the program must return 3, because there are 3 prime numbers in the specified range from 700 to 725, namely (701, 709, 719)

For example:

Input Result

725

```
1 a=int(input())
2 b=int(input())
3 count=0
4 - for i in range(a,b+1):
       if i>1:
6 ☞
            for j in range(2,i):
7 ∞
                if (i\%j)==0:
8
                   break
9 -
            else:
10
                count+=1
11 print(count)
```

Input Expected Got

2 20	8	8
700 725	3	3

Passed all tests!

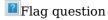
Correct

Marks for this submission: 1.00/1.00.

Question 9

Correct

Mark 1.00 out of 1.00



Question text

You are choreographing a circus show with various animals. For one act, you are given two kangaroos on a number line ready to jump in the positive direction.

- •The first kangaroo starts at position x1 and moves at a speed v1 meters per jump.
- •The second kangaroo starts at position x^2 and moves at a speed of v^2 meters per jump and $x^2 > x^2$
- •You have to figure out to get both kangaroos at the same position at the same time as part of the show before k jumps. If it is possible, return YES, otherwise return NO.

Input Format:

x1-position of kangaroo1 v1-Speed of kangaroo1 x2-position of kangaroo2 v2-Speed of kangaroo2 k-jumps

Output Format:

Both kangaroos are at the same position within k jumps, YES, otherwise NO.

For example:

Input Result

```
0
3
4 YES
2
```

```
11 -
        for i in range(k):
12
            x1+=v1
13
            x2+=v2
14 =
            if x1==x2:
15
                meet=True
16
                break
17 -
        if meet:
18
          print("YES")
19 -
        else:
            print("NO")
20
```

Input Expected Got

```
0 3 4 YES YES 2 6 0 3 2 NO NO 4 8
```

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

Write a program that given an integer 'n', prints the number of integers that are less than or equal to 'n' and co-prime to 'n'

Two integers a and b are said to be relatively prime or co-prime if the only positive integer that evenly divides both of them is 1. That is, the only common positive factor of the two numbers is 1. This is equivalent to their greatest common divisor being 1.

Input Format:

One line containing the value of 'n', where $1 \le n \le 10,000$

Output Format:

One line containing the number of integers that are co-prime to n and less than or equal to 'n'

Sample Test Cases

Test Case 1

```
10
Output
4
Test Case 2
Input
23
Output
22
Test Case 3
Input
11
Output
10
Answer:(penalty regime: 0 %)
    1 = def gcd(a,b):
    2 =
          while b:
    3 a,b=b,a
4 return a
5 n=int(input())
              a,b=b,a%b
    6 count=0
    7 = \text{for i in range(1,n+1):}
    8 = if gcd(i,n)==1:
    9
         count+=1
   10 print(count)
```

Input

Input Expected Got

10	4	4
23	22	22
11	10	10

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6 This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page Show one page at a timeFinish review

CS23336-Introduction to Python Programming

Started on Wednesday, 28 August 2024, 2:02 PM

State Finished

Completed on Wednesday, 28 August 2024, 2:51 PM

Time taken 48 mins 55 secs

Marks 5.00/5.00

Grade 100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Write a function that returns 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:

9+99+999+9999=11106

Sample Input Format:

Sample Output format:

11106

For example:

Test Result

print(Summation(8)) 9872

Answer:(penalty regime: 0 %)

Reset answer

Test Expected Got	
print(Summation(8)) 9872 9872	
print(Summation(10)) 10203040 10203040	
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	
A strobogrammatic number is a number that looks the same when rotated 180 degrees (looked at upside do	wn).
Write a program to determine if a number is strobogrammatic. The number is represented as a string.	
Example 1:	
Input:	
69	
Output:	
true	
Example 2:	
Input:	
88	
Output:	
true	
Example 3:	
Input:	
962	
Output:	
false	
Example 4:	
Input:	
1	
Output:	
true	
For example:	
Test Result	

print(Strobogrammatic(962)) false
Answer:(penalty regime: 0 %)

print(Strobogrammatic(69)) true

Reset answer

Feedback

TestExpectedGotprint(Strobogrammatic(69))truetrueprint(Strobogrammatic(88))truetrueprint(Strobogrammatic(962))falsefalse

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

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

Input Format:

Integer 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 %)

```
Reset answer
```

```
1 ⋅ def coinChange(n):
       coins=[1,2,3,4]
3
       coins.sort(reverse=True)
4
       count=0
5 -
       for coin in coins:
6
           count+=n//coin
7
           n%=coin
8
       return count
9
10
11
```

Feedback

Test Expected Got

```
print(coinChange(16)) 4
```

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

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

12

For example:

Test Result

print(christmasDiscount(578)) 12

Answer:(penalty regime: 0 %)

Reset answer

```
1 def christmasDiscount(n):
    dis=0
    for digit in str(n):
    digit=int(digit)
    if digit in [2,3,5,7]:
    dis+edigit
    return dis
```

Feedback

Test Expected Got

print(christmasDiscount(578)) 12

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

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 %)

Reset answer

```
1 - def checkUgly(n):
       if n \le 0:
3
         return "not ugly"
 4 -
       for p in [2,3,5]:
 5 =
          while n%p==0:
 6
             n=n//p
       if n==1:
8
       return "ugly"
9 🖘
       else:
10
       return "not ugly"
11
```

Feedback

Test Expected Got

```
print(checkUgly(6)) ugly ugly
print(checkUgly(21)) not ugly not ugly
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Show one page at a timeFinish review

CS23336-Introduction to Python Programming

Started on Wednesday, 28 August 2024, 2:52 PM

State Finished

Completed on Wednesday, 28 August 2024, 7:49 PM

Time taken 4 hours 57 mins

Marks 5.00/5.00

Grade 100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Euclid was a Greek mathematician who lived approximately 2,300 years ago. His algorithm for computing the greatest common divisor of two positive integers, a and b, is both efficient and recursive. It is outlined below:

If b is 0 then

return a

Else

Set c equal to the remainder when a is divided by b Return the greatest common divisor of b and c

Write a Recursive funtion that implements Euclid's algorithm and uses it to determine the greatest common divisor of two integers entered by the user. Test your program with some very large integers. The result will be computed quickly, even for huge numbers consisting of hundreds of digits, because Euclid's algorithm is extremely efficient.

Answer:(penalty regime: 0 %)

Reset answer

Feedback

Test	Expected	Got
print(gcd(8, 12))	4	4
print(gcd(720, 1000))	40	40

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 integer number and you have to count the digits using recursion using Python program. In this program, you will be reading an integer number and counting the total digits, using a function countDigits() which will take a number as an argument and return the count after recursion process.

Input Format: The first and only line of the input contains a single integer n Output Format: Output a single line denoting the number of digits in n.

For example:

Test Result

print(countDigits(800)) 3

Answer:(penalty regime: 0 %)

Reset answer

```
1 * def countDigits(n):
2    n=str(n)
3    return len(n)
```

Feedback

TestExpected Gotprint(countDigits(12345))5print(countDigits(800))3

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

The notion of a palindrome was introduced previously. In this exercise you will write a recursive function that determines whether or not a string is a palindrome. The empty string is a palindrome, as is any string containing only one character. Any longer string is a palindrome if its first and last characters match, and if the string formed by removing the first and last characters is also a palindrome.

Write a program that reads a string from the user and uses your recursive function to determine whether or not it is a palindrome. Then your program should display an appropriate message for the user.

Sample Input

malayalam

Sample Output

That was a palindrome!

Sample Input

madan

Sample Output

That is not a palindrome.

Answer:(penalty regime: 0 %)

Reset answer

```
1 = def isPalindrome(s):
 2
           # Base case: The empty string is a palindrome. So is a string containing only 1 character.
 3 -
           if len(s) <= 1:
 4
               return True
 5 -
           elif s[0] == s[-1] and isPalindrome(s[1:-1]):
 6
                return True
           else:
 8
                return False
 9
           # Recursive case: The string is a palindrome only if the first and last characters match, and
10
           # the rest of the string is a palindrome
11
12
13 # Check whether or not a string entered by the user is a palindrome
14 # Read the string from the user
15 line=input()
16
17 # Check its status and display the result
18 = if isPalindrome(line):
       print("That was a palindrome!")
19
20
21 - else:
22
        print("That is not a palindrome.")
23
24
```

Feedback

Input

malayalam That was a palindrome! That was a palindrome! madan That is not a palindrome. That is not a palindrome.

Got

Expected

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

Complete the recursive function to return Binary Equivalent of an Integer using Recursion.

Sample Test Cases

Test Case 1

Input

10

Output

1010

Test Case 2

Input

257

Output

10000001

For example:

Test Result

print(binayNumber(10)) 1010

print(binayNumber(257)) 100000001

Answer:(penalty regime: 0 %)

Reset answer

```
1 - def binayNumber(n):
2 return bin(n)[2:]
3
```

Feedback

Test Expected Got print(binayNumber(10)) 1010 1010

print(binayNumber(257)) 100000001 100000001

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

Complete a Recursive Function to find if a given number N can be expressed as a sum of two prime numbers.

Note: YOU MUST OPTIMIZE the logic to find whether a number is prime or not, as very large prime numbers are provided as input. If the logic is not optimized your program will NOT get executed within the given time limit.

Input Format:

First line contains number N.

Output Format:

Return either yes or no.

Boundary Conditions / Constraints:

Example Input/Output 1:

Input:

20

Output:

yes

Input:

23

Ouput:

no

Explanation:

20 can be expressed as 17+3

23 cannot be expressed as sum of two primes

For example:

Test Result

```
print(checkPrimeSum(20)) yes
```

print(checkPrimeSum(23)) no

Answer:(penalty regime: 0 %)

Reset answer

```
1 ⋅ def checkPrimeSum(n):
2 =
        def prime(num):
3 -
           if num<2:</pre>
4
               return False
5 -
            for i in range(2,int(num**0.5)+1):
6 ∞
             if num%i==0:
7
                   return False
8
           return True
9 -
       for i in range(2,n):
10 -
           if prime(i) and prime(n-i):
           return 'yes'
11
12 🖘
        for i in range(2,n//2+1):
```

13 - 14	<pre>if prime(i) and prime(n-i): return 'yes'</pre>	
15	return 'no'	
16		
17		
		4

Test Expected Got

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Show one page at a timeFinish review

CS23336-Introduction to Python Programming

Started on Wednesday, 28 August 2024, 8:35 PM

State Finished

Completed on Friday, 30 August 2024, 12:37 PM

Time taken 1 day 16 hours **Marks** 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct
Mark 1.00 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:

 $1 \le \text{Length of S} \le 100$

Example Input/Output 1:

Input:

abcd@gmail.com

Output:

com gmail abcd

For example:

Input Result

edu.in arvijayakumar@rajalakshmi.edu.in rajalakshmi arvijayakumar

```
1  a=input()
2  un,domain=a.split('@')
3  dp=domain.split('.')
4  if len(dp)>=2:
5     dn=dp[0]
6     de='.'.join(dp[1:])
7  print(de)
8  print(dn)
9  print(un)
```

Input	Expected	Got
abcd@gmail.com	com gmail abcd	com gmail abcd
arvijayakumar@rajalakshmi.edu.in		edu.in rajalakshmi arvijayakumar

Passed all tests!

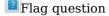
Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00



Question text

The program must accept N series of keystrokes as string values as the input. The character $^$ represents undo action to clear the last entered keystroke. The program must print the string typed after applying the undo operations as the output. If there are no characters in the string then print -1 as the output.

Boundary Condition(s):

$$1 \le N \le 100$$

 $1 \le Length of each string <= 100$

Input Format:

The first line contains the integer N. The next N lines contain a string on each line.

Output Format:

The first N lines contain the string after applying the undo operations.

Example Input/Output 1:

Input:

```
Hey ^ goooo ^ glee ^ lucke ^ y ^ charr ^ ms ora ^ nge ^ ^ ^ ^
```

Output:

Hey google luckycharms

Answer:(penalty regime: 0 %)

```
1 = def pk(N,ks):
2
        results=[]
 3 ∞
        for keystroke in ks:
 4
            stack=[]
 5 ∞
            for char in keystroke:
               if char =='^':
 6 =
 7 -
                   if stack:
8
                     stack.pop()
9 ...
               else:
                   stack.append(char)
10
            result=''.join(stack) if stack else '-1'
11
12
            results.append(result)
13
       return results
14 N=int(input())
15 ks=[input().strip() for j in range(N)]
16 results=pk(N,ks)
17 ■ for result in results:
18
       print(result)
```

Feedback

Input Expected Got

```
3
Hey ^ goooo^^glee^ luckycharms luckycharms
ora^^nge^^^^
```

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 string, determine if it is a palindrome, considering only alphanumeric characters and ignoring cases.

Note: For the purpose of this problem, we define empty string as valid palindrome.

Example 1:

```
Input:
A man, a plan, a canal: Panama

Output:
1
```

Example 2:

```
Input:
race a car

Output:
0
```

Constraints:

• s consists only of printable ASCII characters.

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got A man, a plan, a canal: Panama 1 1 race a car 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

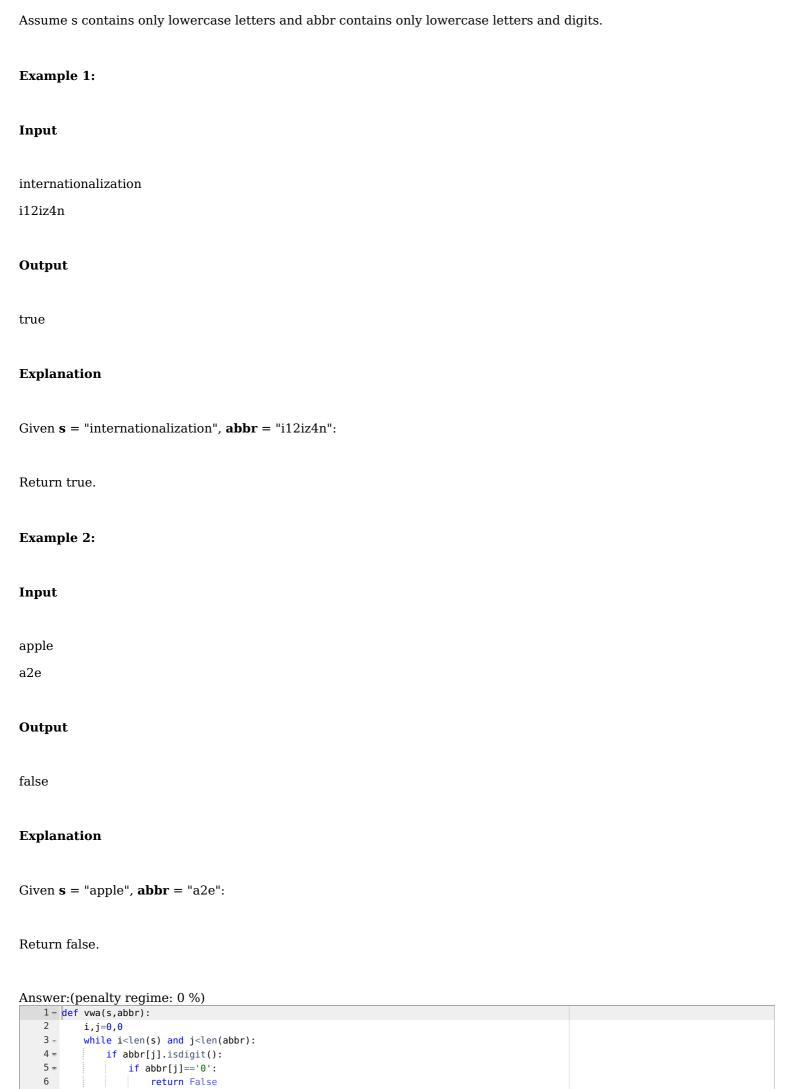
Given a **non-empty** string s and an abbreviation abbr, return whether the string matches with the given abbreviation.

A string such as "word" contains only the following valid abbreviations:

```
["word", "1ord", "w1rd", "wo1d", "wor1", "2rd", "w2d", "wo2", "1o1d", "1or1", "w1r1", "1o2", "2r1", "3d", "w3", "4"]
```

Notice that only the above abbreviations are valid abbreviations of the string "word". Any other string is not a valid abbreviation of "word".

Note:



num=<mark>0</mark>

```
while j<len(abbr) and abbr[j].isdigit():
    num=num*10+int(abbr[j])</pre>
 8 =
10
                      j+=1
11
                  i+=num
12 -
             else:
13 =
                  if i>=len(s) or abbr[j]!=s[i]:
14
                     return False
15
                  i+=1
16
                 j+=1
17
         return i==len(s) and j==len(abbr)
18 s=input()
19 abbr=input()
20 x=vwa(s,abbr)
21 print('true' if x else 'false')
```

Input Expected Got

internationalization true true i12iz4n true apple a2e false

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

Write a Python program to get one string and reverses a string. The input string is given as an array of characters char[].

You may assume all the characters consist of printable ascii characters.

Example 1:

```
Input:
hello
Output:
olleh
```

Example 2:

Input:
Hannah
Output:
hannaH

```
1 a=input()
2 b=a[::-1]
3 print(b)
```

Input Expected Got

hello olleh olleh

Hannah hannaH hannaH

Passed all tests!

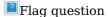
Correct

Marks for this submission: 1.00/1.00.

Question 6

Correct

Mark 1.00 out of 1.00



Question text

A pangram is a sentence where every letter of the English alphabet appears at least once.

Given a string sentence containing only lowercase English letters, return true if sentence is a pangram, or false otherwise.

Example 1:

Input:

 $the {\tt quick brown fox jumps over the lazy} dog$

Output:

true

Explanation: sentence contains at least one of every letter of the English alphabet.

Example 2:

Input:

arvijayakumar

Output: false

Constraints:

1 <= sentence.length <= 1000

sentence consists of lowercase English letters.

For example:

Test Result

print(checkPangram('thequickbrownfoxjumpsoverthelazydog')) true

Answer:(penalty regime: 0 %)

Reset answer

```
def cheskPangnam(slamnopqrstuvwxyz"

3 - for i in l:

4 - if i not in s.lower():

5 | return "false"

6 return "true"
```

true

Feedback

Test Expected Got

print(checkPangram('thequickbrownfoxjumpsoverthelazydog')) true

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

Consider the below words as key words and check the given input is key word or not.

keywords: {break, case, continue, default, defer, else, for, func, goto, if, map, range, return, struct, type, var}

Input format:

Take string as an input from stdin.

Output format:

Print the word is key word or not.

Example Input:

break

Output:

break is a keyword

Example Input:

IF

Output:

IF is not a keyword

For example:

Input Result

break break is a keyword

IF IF is not a keyword

Answer:(penalty regime: 0 %)

```
a = input()
x = ['break', 'case', 'continue', 'default', 'defer', 'else', 'for', 'func', 'goto', 'if', 'map', 'range', 'return', 'struct', 'type', 'var']

if a in x:
    print(f"{a} is a keyword")

else:
    print(f"{a} is not a keyword")
```

Feedback

Input Expected Got

break break is a keyword break is a keyword

IF IF is not a keyword IF is not a keyword

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Given a string s containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.

An input string is valid if:

Open brackets must be closed by the same type of brackets.

Open brackets must be closed in the correct order.

Constraints:

1 <= s.length <= 10^4

s consists of parentheses only $'()[]{}'.$

For example:

Test	Result
<pre>print(ValidParenthesis("()"))</pre>	true
<pre>print(ValidParenthesis("()[]{}"))</pre>	true

Answer:(penalty regime: 0 %)

```
Reset answer
```

```
1 <del>■</del> def ValidParenthesis(s):
       stack=[]
 3
        mp={')':'(',']':'[','}':'{'}
4 -
       for char in s:
5 ∞
          if char in mp.values():
 6
               stack.append(char)
 7 -
            elif char in mp:
 8 =
               if not stack or stack[-1]!=mp[char]:
 9
                  return "false"
10
               stack.pop()
11
        return "true" if not stack else 'false'
```

Feedback

Test	Expected	Got
<pre>print(ValidParenthesis("()"))</pre>	true	true
<pre>print(ValidParenthesis("()[]{}"))</pre>	true	true
<pre>print(ValidParenthesis("(]"))</pre>	false	false

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

Assume that the given string has enough memory.

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

Sample Input 1

a2b4c6

Sample Output 1

aabbbbcccccc

Answer:(penalty regime: 0 %)

1 * def ds(a):

```
result=[]
 2
 4 =
        while i<len(a):</pre>
 5
            char=a[i]
 6
            count=""
 7
            i+=1
 8 =
            while i<len(a) and a[i].isdigit():</pre>
 9
                count+=a[i]
10
11
            ct=int(count)
12
            result.append(char*ct)
13
        return ''.join(result)
14 a=input()
15 x=ds(a)
16 print(x)
17
```

Input Expected Got

a2b4c6 aabbbbcccccc aabbbbcccccc

a12b3d4 aaaaaaaaaaabbbdddd aaaaaaaaaabbbdddd

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

Find if a String2 is substring of String1. If it is, return the index of the first occurrence. else return -1.

Sample Input 1

thistest123string

123

Sample Output 1

Input Expected Got

thistest123string ₈

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6 This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page Show one page at a timeFinish review

CS23336-Introduction to Python Programming

Started on Friday, 18 October 2024, 3:30 PM

State Finished

Completed on Friday, 18 October 2024, 8:34 PM

Time taken 5 hours 4 mins **Marks** 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct
Mark 1.00 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

Input

ıııpu

1

3

1

3

5

Output:

Input

1

3

3

5

99

Output

0

For example:

Input Result

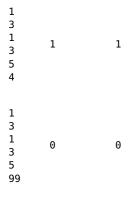
```
1
       1
5
1
1
       0
3
```

Answer:(penalty regime: 0 %)

```
1 T=int(input())
 2 =  for test in range(T):
       n=int(input())
        a=[int(input()) for _ in range(n)]
 5
        k=int(input())
 6
        res=0
 7 ∞
        for i in range(n):
 8 =
            for j in range(n):
 9 -
                if i!=j:
10
                    d=a[i]-a[j]
11 -
                    if d==k:
12
                       res=1
13
        print(res)
```

Feedback

Input Expected Got



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 two arrays of positive integers, for each element in the second array, find the total number of elements in the first array which are less than or equal to that element. Store the values determined in an array.

For example, if the first array is [1, 2, 3] and the second array is [2, 4], then there are 2 elements in the first array less than or equal to 2. There are 3 elements in the first array which are less than or equal to 4. We can store these answers in an array, answer = [2, 3].

Program Description

The program must return an array of m positive integers, one for each maxes[i] representing the total number of elements nums[j] satisfying $nums[j] \le maxes[i]$ where $0 \le j < n$ and $0 \le i < m$, in the given order.

The program has the following:

nums[nums[0],...nums[n-1]]: first array of positive integers
maxes[maxes[0],...maxes[n-1]]: second array of positive integers

Constraints

- $\cdot 2 \le n, m \le 10^5$
- · $1 \le nums[j] \le 10^9$, where $0 \le j < n$.
- · $1 \le maxes[i] \le 10^9$, where $0 \le i < m$.

Input Format For Custom Testing

Input from stdin will be processed as follows and passed to the program.

The first line contains an integer *n*, the number of elements in *nums*.

The next n lines each contain an integer describing nums[j] where $0 \le j < n$.

The next line contains an integer *m*, the number of elements in *maxes*.

The next m lines each contain an integer describing maxes[i] where $0 \le i < m$.

Sample Case 0

Sample Input 0

4 1

4

4

2

3

Sample Output 0

2

Explanation 0

We are given n = 4, nums = [1, 4, 2, 4], m = 2, and maxes = [3, 5].

- 1. For maxes[0] = 3, we have 2 elements in nums(nums[0] = 1 and nums[2] = 2) that are $\leq maxes[0]$.
- 2. For maxes[1] = 5, we have 4 elements in nums(nums[0] = 1, nums[1] = 4, nums[2] = 2, and <math>nums[3] = 4) that are $\leq maxes[1]$.

Thus, the program returns the array [2, 4] as the answer.

Sample Case 1

Sample Input 1

5

10

7

```
8
4
3
1
7
8
```

Sample Output 1

Explanation 1

We are given, n = 5, nums = [2, 10, 5, 4, 8], m = 4, and maxes = [3, 1, 7, 8].

- 1. For maxes[0] = 3, we have 1 element in nums(nums[0] = 2) that is $\leq maxes[0]$.
- 2. For maxes[1] = 1, there are 0 elements in nums that are $\leq maxes[1]$.
- 3. For maxes[2] = 7, we have 3 elements in nums(nums[0] = 2, nums[2] = 5, and nums[3] = 4) that are $\leq maxes[2]$.
- 4. For maxes[3] = 8, we have 4 elements in nums(nums[0] = 2, nums[2] = 5, nums[3] = 4, and nums[4] = 8) that are $\leq maxes[3]$.

Thus, the program returns the array [1, 0, 3, 4] as the answer.

Answer:(penalty regime: 0 %)

```
1 n=int(input())
 2 nums=[int(input()) for _ in range(n)]
3 m=int(input())
4 maxes=[int(input()) for _ in range(m)]
 5 res=[]
 6 = for max1 in maxes:
 7
        count=0
 8 -
        for num in nums:
 9 ...
            if num<=max1:</pre>
10
           count+=1
       res.append(count)
11
12 = for count in res:
13
        print(count)
14
```

Feedback

Input Expected Got

```
4
1
2
       2
                   2
2
3
5
2
10
5
       1
                   1
4
       0
                   0
8
                   3
       3
3
1
7
```

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

Assume you have an array of length n initialized with all 0's and are given k update operations.

Each operation is represented as a triplet: **[startIndex, endIndex, inc]** which increments each element of subarray **A[startIndex ... endIndex]** (startIndex and endIndex inclusive) with **inc**.

Return the modified array after all k operations were executed.

Example:

Input:

3

132

2 4 3

0 2 -2

Output:

-20353

Explanation:

```
Initial state:
```

```
length = 5, updates = [[1,3,2],[2,4,3],[0,2,-2]]
```

[0,0,0,0,0]

After applying operation [1,3,2]:

[0,2,2,2,0]

After applying operation [2,4,3]:

[0,2,5,5,3]

After applying operation [0,2,-2]:

[-2,0,3,5,3]

Answer:(penalty regime: 0 %)

Input Expected Got

```
5 3 1 3 2 -2 0 3 5 3 -2 0 3 5 3 2 4 3 0 2 -2
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Given a matrix mat where every row is sorted in **strictly increasing** order, return the **smallest common element** in all rows.

If there is no common element, return -1.

Example 1:

Input:

4 5

12345

245810

3 5 7 9 11

1 3 5 7 9

Output:

Constraints:

- 1 <= mat.length, mat[i].length <= 500
- $1 \le mat[i][j] \le 10^4$
- mat[i] is sorted in strictly increasing order.

Answer:(penalty regime: 0 %)

```
1 rows,col=map(int,input().split())
 2 matrix=[list(map(int,input().split())) for _ in range(rows)]
 4 count={}
5 ★ for elem in matrix[0]:
       count[elem]=1
 7 = for i in range(1, rows):
 8 =
      for elem in matrix[i]:
9 -
          if elem in count and count[elem]==i + 1 - 1:
10
               count[elem]+=1
11 smallestcommonelement=1
12 = for elem in matrix[0]:
       if count.get(elem)==rows:
14
           smallestcommonelement=elem
15
           break
16 print(smallestcommonelement)
17
18
```

Feedback

Input Expected Got

```
4 5
1 2 3 4 5
2 4 5 8 10 5 5
3 5 7 9 11
1 3 5 7 9
```

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

The program must accept N integers and an integer K as the input. The program must print every K integers in descending order as the output.

Note: If **N** % **K** != **0**, then sort the final N%K integers in descending order.

Boundary Condition(s):

```
1 \le N \le 10^4
-99999 \le Array Element Value \le 99999
```

Input Format:

The first line contains the values of N and K separated by a space. The second line contains N integers separated by space(s).

Output Format:

The first line contains N integers.

Example Input/Output 1:

Input:

7 3 48 541 23 68 13 41 6

Output:

541 48 23 68 41 13 6

Explanation:

The first three integers are 48 541 23, after sorting in descending order the integers are **541 48 23**. The second three integers are 68 13 41, after sorting in descending order the integers are **68 41 13**. The last integer is **6**.

The integers are **541 48 23 68 41 13 6** Hence the output is **541 48 23 68 41 13 6**.

Answer:(penalty regime: 0 %)

Feedback

 7 3 48 541 23 68 13 41 6
 541 48 23 68 41 13 6 541 48 23 68 41 13 6 541 48 23 68 41 13 6

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 an integer n, return an list of length n+1 such that for each i (0 <= i <= n), ans[i] is the number of 1's in the binary representation of i.

Example:

Input: n = 2

```
Output: [0,1,1]
Explanation:
0 --> 0
1 --> 1
2 --> 10

Example2:

Input: n = 5
Output: [0,1,1,2,1,2]
Explanation:
0 --> 0
1 --> 1
2 --> 10
3 --> 11
4 --> 100
5 --> 101
```

Note: Complete the given function alone

For example:

Test Result

print(CountingBits(5)) [0, 1, 1, 2, 1, 2]

Answer:(penalty regime: 0 %)

Reset answer

```
1 - def CountingBits(n):
    ans=[0]*(n+1)
    for i in range(1,n+1):
    ans[i]=ans[i>>1]+(i&1)
    return ans
```

Feedback

```
Test Expected Got

print(CountingBits(2)) [0, 1, 1] [0, 1, 1]

print(CountingBits(5)) [0, 1, 1, 2, 1, 2] [0, 1, 1, 2, 1, 2]
```

Passed all tests!

Correct Marks for this submission: 1.00/1.00.
Question 7
Correct

Question text

Mark 1.00 out of 1.00 Flag question

An array is monotonic if it is either monotone increasing or monotone decreasing. An array A is monotone increasing if for all $i \le j$, $A[i] \le A[j]$. An array A is monotone decreasing if for all $i \le j$, A[i]>= A[j].

Write a program if n array is monotonic or not. Print "True" if is monotonic or "False" if it is not. Array can be monotone increasing or decreasing.

Input Format:

First line n-get number of elements

Next n Lines is the array of elements

Output Format:

True ,if array is monotone increasing or decreasing.

otherwise False is printed

Sample Input1

Sample Output1

True

Sample Input2

Sample Output2

True

Sample Input 3

Sample Output3

False

For example:

Input Result

```
4
6
5 True
4
3
```

Answer:(penalty regime: 0 %)

```
1 n=int(input())
 2 arr=[]
3 for _ in range(n):
 4 arr.append(int(input()))
 5 		 def ismonotonic(array):
6
      inc=dec=True
7 -
      for i in range(1,len(array)):
 8 -
       if array[i]<array[i-1]:</pre>
9
              inc=False
10 -
          if array[i]>array[i-1]:
11
           dec=False
12
      return "True" if inc or dec else "False"
print(ismonotonic(arr))
14
```

Feedback

Input Expected Got

```
6
5
      True
                  True
4
3
      False
                  False
4
1
6
      False
                  False
2
4
9
      True
                  True
6
2
3
2
      False
                  False
1
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 8

Correct Mark 1.00 out of 1.00

Flag question Question text Program to printelements present

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

2

2

3

Output:

1234

Example Input:

6

1

1

2

2

3

Output:

123

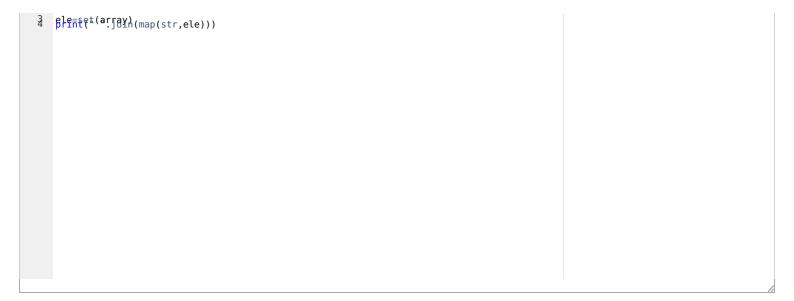
For example:

Input Result

```
5 1 2 2 1 2 3 4 3 4 4 6 1 1 2 1 2 3 2 3 3 3 3
```

Answer:(penalty regime: 0 %)

```
1  n=int(input())
2  array=[int(input()) for _ in range(n)]
```



Input Expected Got

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

Determine the factors of a number (i.e., all positive integer values that evenly divide into a number) and then return the p^{th} element of the list, sorted ascending. If there is no p^{th} 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

 $1 \le n \le 10^{15}$

$$1 \le p \le 10^9$$

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
Explanation 0
Factoring n = 10 results in \{1, 2, 5, 10\}. Return the p = 3^{rd} factor, 5, as the answer.
Sample Case 1
Sample Input 1
10
5
Sample Output 1
Explanation 1
Factoring n = 10 results in \{1, 2, 5, 10\}. There are only 4 factors and p = 5, therefore 0 is returned as the answer.
Sample Case 2
Sample Input 2
Sample Output 2
Explanation 2
Factoring n = 1 results in \{1\}. The p = 1st factor of 1 is returned as the answer.
For example:
Input Result
10
       5
10
       0
```

Answer:(penalty regime: 0 %)

1

```
1 n=int(input())
 p=int(input())
3 <del>def</del> factor(num):
 4
        fact=[]
 5 -
        for i in range(1,num+1):
 6 -
            if num%i==0:
 7
                fact.append(i)
 8
        return fact
 9 fact1=factor(n)
10 = if p<=len(fact1):</pre>
11
       print(fact1[p-1])
12 - else:
13
        print(0)
14
```

Input Expected Got

10 3	5	5
10 5	0	0
1	1	1

Passed all tests!

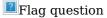
Correct

Marks for this submission: 1.00/1.00.

Question 10

Correct

Mark 1.00 out of 1.00



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

,

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	;	Expected		Go	Got			
7 23								
45	23	occurs	3	times 23	occurs	3	times	
23	45	occurs	2	times 45	occurs	2	times	
56	56	occurs	1	times 56	occurs	1	times	
45	40	occurs	1	times 40	occurs	1	times	
23								
40								

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6 This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page Show one page at a timeFinish review

CS23336-Introduction to Python Programming

Started on Saturday, 19 October 2024, 8:38 PM

State Finished

Completed on Saturday, 19 October 2024, 10:52 PM

Time taken 2 hours 14 mins **Marks** 10.00/10.00

Grade 100.00 out of 100.00

Question 1

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
```

1,2 0

Answer:(penalty regime: 0 %)

```
1 - def fun(t,k):
2
       s=set()
3
       p=set()
4 ∞
       for n in t:
5
           c=k-n
6 =
           if c in s:
              p.add(tuple(sorted((n,c))))
           s.add(n)
9
       return len(p)
10 t=tuple(map(int,input().split(',')))
11 k=int(input())
12 print(fun(t,k))
```

Input Expected Got

```
5,6,5,7,7,8 2 2
13 2
1,2,1,2,5 1 1
1,2 0 0
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

You are given an integer tuple nums containing distinct numbers. Your task is to perform a sequence of operations on this tuple until it becomes empty. The operations are defined as follows:

- 1. If the first element of the tuple has the smallest value in the entire tuple, remove it.
- 2. Otherwise, move the first element to the end of the tuple.

You need to return an integer denoting the number of operations required to make the tuple empty.

Constraints

- The input tuple nums contains distinct integers.
- The operations must be performed using tuples and sets to maintain immutability and efficiency.
- Your function should accept the tuple nums as input and return the total number of operations as an integer.

Example:

```
Input: nums = (3, 4, -1) Output: 5

Explanation:
Operation 1: [3, 4, -1] -> First element is not the smallest, move to the end -> [4, -1, 3] Operation 2: [4, -1, 3] -> First element is not the smallest, move to the end -> [-1, 3, 4] Operation 3: [-1, 3, 4] -> First element is the smallest, remove it -> [3, 4] Operation 4: [3, 4] -> First element is the smallest, remove it -> [4] Operation 5: [4] -> First element is the smallest, remove it -> [3, 4] Operation 5: [4] -> First element is the smallest, remove it -> [3, 4] Operation 5: [4] -> First element is the smallest, remove it -> [3, 4] Operation 5: [4] -> First element is the smallest, remove it -> [3, 4] Operation 5: [4] -> First element is the smallest, remove it -> [3, 4] Operation 5: [4] -> First element is the smallest, remove it -> [3, 4] Operation 5: [4] -> First element is the smallest, remove it -> [3, 4] Operation 5: [4] -> First element is the smallest, remove it -> [3, 4] Operation 5: [4] -> First element is the smallest, remove it -> [3, 4] Operation 5: [4] -> First element is the smallest, remove it -> [3, 4] -> First element is the smallest, remove it -> [3, 4] -> First element is the smallest, remove it -> [3, 4] -> First element is the smallest, remove it -> [3, 4] -> First element is the smallest, remove it -> [3, 4] -> First element is the smallest, remove it -> [3, 4] -> First element is the smallest, remove it -> [3, 4] -> First element is the smallest, remove it -> [3, 4] -> First element is the smallest, remove it -> [3, 4] -> First element is the smallest, remove it -> [3, 4] -> First element is the smallest element is the smallest element is the smallest element is the smallest element elemen
```

For example:

Test Result

```
print(count_operations((3, 4, -1))) 5
```

Answer:(penalty regime: 0 %)

Reset answer

```
1 = def count operations(nums: tuple) -> int:
 2
         # Your implementation here
 3
         op=<mark>0</mark>
 4
         nums=list(nums)
 5 -
         while nums:
 6 ∞
             if nums[0]==min(nums):
 7
                 nums.pop(0)
 8 =
             else:
 9
                 nums.append(nums.pop(0))
10
             op+=1
11
         return op
```

Test	Expected	l Got
<pre>print(count_operations((3, 4, -1)))</pre>	5	5
<pre>print(count_operations((1, 2, 3, 4, 5)))</pre>	5	5
<pre>print(count_operations((5, 4, 3, 2, 1)))</pre>	15	15
<pre>print(count_operations((42,)))</pre>	1	1
<pre>print(count_operations((-2, 3, -5, 4, 1)))</pre>	11	11

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

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 v ad	world		1

Faculty Upskilling in Python Programming $_{\rm 2}$ ak

Answer:(penalty regime: 0 %)

```
1 - def function(a:str,b:str)->int:
2     a=a.lower()
3     b=b.lower()
4     w=a.split()
5     b1=set(b)
6     count=0
7     for i in w:
8          if not set(i)&b1:
9          count+=1
```

10	return count	
11		
12	a=input()	
13	b=input()	
14		

Input	Expected	l Got
hello world ad	1	1
Welcome to REC e	1	1
Faculty Upskilling in Python Programmin ak	^g ₂	2

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct
Mark 1.00 out of 1.00
Flag question

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:

5 4

12865

26810

Sample Output:

1 5 10

3

Sample Input:

5 5

12345

12345

Sample Output:

NO SUCH ELEMENTS

For example:

Input Result

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

Answer:(penalty regime: 0 %)

Feedback

Input	Expected	Got
5 4 1 2 8 6 5 2 6 8 10	1 5 10 3	1 5 10 3
3 3 10 10 10 10 11 12	11 12 2	11 12 2
5 5 1 2 3 4 5 1 2 3 4 5	NO SUCH ELEMENTS	NO SUCH ELEMENTS

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 5

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

2
adsfd
afd
```

Answer:(penalty regime: 0 %)

```
1 ∞ def function(word, rows):
        l=word.lower()
        for row in rows:
 3 ∞
 4 =
          if all(char in row for char in l):
 5
               return True
6
       return False
 7 ∞ def find(words):
 8
        rows=["qwertyuiop","asdfghjkl","zxcvbnm"]
 9
        res=[]
10 =
        for word in words:
11 -
           if function(word,rows):
12
             res.append(word)
13
        return res
14 n=int(input())
15 words=[]
16 - for _ in range(n):
       word=input()
18
        words.append(word)
19 res1=find(words)
20 s if res1:
21 -
        for word in res1:
22
           print(word)
23 - else:
        print("No words")
```

Feedback

Input Expected Got

```
4
Hello
Alaska
Dad
Peace

Alaska
Dad
Dad
No words
No words
```

```
2 adsfd adsfd afd afd
```

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

Coders here is a simple task for you, Given string str. Your task is to check whether it is a binary string or not by using python set.

Examples:

Input: str = "01010101010"

Output: Yes

Input: str = "REC101"

Output: No

For example:

Input Result

01010101010 Yes

010101 10101 No

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got

01010101010 Yes Yes
REC123 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

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","CCCCAAAAA"]
```

Example 2:

Input: s = "AAAAAAAAAAA"
Output: ["AAAAAAAAAA"]

For example:

Input

Result

AAAAACCCCCAAAAAGGGTTT AAAAACCCCCC

Answer:(penalty regime: 0 %)

```
1 = def dna(s):
 2
        sea={}
 3
        res=[]
4 -
        for i in range(len(s)-9):
 5
            s1=s[i:i+10]
 6 🖘
            if s1 in seq:
 7
                seq[s1]+=1
 8 -
            else:
 9
                seq[s1]=<mark>1</mark>
10 -
        for s1,c in seq.items():
11 ∞
            if c>1:
12
                res.append(s1)
13
        return res
14 res1=dna(input())
15 - for s1 in res1:
        print(s1)
17
18
```

```
Input
                             Expected
                             AAAAACCCCC AAAAACCCCC
AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT
                             CCCCCAAAAA CCCCCAAAAA
AAAAAAAAAAA
                             ΑΑΑΑΑΑΑΑ ΑΑΑΑΑΑΑΑ
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 8
Correct
Mark 1.00 out of 1.00
Flag question
Question text
Check if a set is a subset of another set.
```

```
Example:
Sample Input1:
mango apple
mango orange
mango
output1:
yes
set3 is subset of set1 and set2
input2:
mango orange
banana orange
grapes
```

For example:

output2:

no

```
Test
         Input
                                 Result
      mango apple
     mango apple
mango orange
set3 is subset of set1 and set2
      mango
      mango orange
      banana orange No
      grapes
```

```
Answer:(penalty regime: 0 %)
```

```
1 s1=set(input().strip().split())
2 s2=set(input().strip().split())
3 s3=set(input().strip().split())
4 - if s3.issubset(s1) and s3.issubset(s2):
5
      print('yes')
6
       print("set3 is subset of set1 and set2")
7 <sup>®</sup> else:
8
      print('No')
```

Expected Test Input Got mango apple yes yes 1 mango orange set3 is subset of set1 and set2 set3 is subset of set1 and set2 mango mango orange 2 banana orange No No grapes

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

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

12234

Output:

1234

Example Input:

6

112233

Output:

123

For example:

Input Result

```
5
1
2
2 1 2 3 4
3
```

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got

```
5
1
2
      1 2 3 4 1 2 3 4
2
3
4
6
1
2
      1 2 3 1 2 3
3
3
5
11
22
      11 22
              11 22
11
22
11
10
2
3
5
1
2
3
      1 2 3 4 5 1 2 3 4 5
```

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

Given an array of integers nums containing n+1 integers where each integer is in the range [1, n] inclusive. There is only **one repeated number** in nums, return this repeated number. Solve the problem using set.

Example 1:

```
Input: nums = [1,3,4,2,2]
Output: 2
Example 2:
```

Input: nums = [3,1,3,4,2]

Output: 3

For example:

Input Result

1 3 4 4 2 4

Answer:(penalty regime: 0 %)

Feedback

Input	Expected Got			
1 3 4 4 2	4	4		
1 2 2 3 4 5 6	7 2	2		

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6 This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page Show one page at a timeFinish review

CS23336-Introduction to Python Programming

Started on Saturday, 19 October 2024, 11:10 PM

State Finished

Completed on Tuesday, 22 October 2024, 10:03 PM

Time taken 2 days 22 hours **Marks** 10.00/10.00

Grade 100.00 out of 100.00

Question 1

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

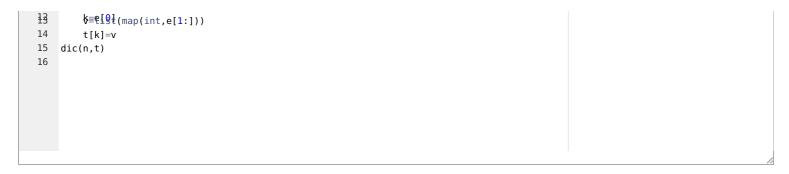
Best 18

For example:

Input Result

```
2
Gfg 6 7 4
Best 7 6 5
```

Answer:(penalty regime: 0 %)



Input Expected Got

```
2
Gfg 6 7 4 Gfg 17 Gfg 17
Best 7 6 5 Best 18 Best 18
2
Gfg 6 6 Best 10 Best 10
Best 5 5 Gfg 12 Gfg 12
```

Passed all tests!

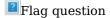
Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00



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 <= s.length <= 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 %)

Feedback

Input Expected Got

is2 sentence4 This1 a3 This is a sentence This is a sentence

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1.00

Flag guestion

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 = 1e = 0
```

i = 1

o = 2

u = 0

For example:

Input Result

```
\begin{array}{c} a = 0 \\ e = 1 \\ \\ \text{Hello World } i = 0 \\ \\ 0 = 2 \\ \\ u = 0 \\ \\ \end{array} \begin{array}{c} a = 0 \\ \\ e = 0 \\ \\ \text{Python} \\ i = 0 \\ \\ 0 = 1 \\ \\ u = 0 \\ \end{array}
```

Answer:(penalty regime: 0 %)

```
1 <del>def</del> vowels(s):
       vowel={'a':0,'e':0,'i':0,'o':0,'u':0}
 2
3
       s=s.lower()
 4 -
     for char in s:
 5 ∞
     if char in vowel:
 6
           vowel[char]+=1
       return vowel
8 s=input()
9 count=vowels(s)
10 - for _ in 'aeiou':
11
      print(f"{_} = {count[_]}")
```

Feedback

Input	Expecte	ed Got
Hello World	a = 0 e = 1 i = 0 o = 2 u = 0	a = 0 e = 1 i = 0 o = 2 u = 0
AEIOU aeio u	a = 2 e = 2 i = 2 o = 2 u = 2	a = 2 e = 2 i = 2 o = 2 u = 2

	а	=	0	а	=	0
	е	=	0	е	=	0
Python	i	=	0	i	=	0
	0	=	1	0	=	1
	u	=	0	u	=	0
	а	=	1	а	=	1
	е	=	1	е	=	1
abcdefghijklmnopqrstuvwxyz	i	=	1	i	=	1
	0	=	1	0	=	1
	u	=	1	u	=	1
	а	=	1	а	=	1
	е	=	1	е	=	1
12345!@#\$%AEIOU	i	=	1	i	=	1
	0	=	1	0	=	1
	u	=	1	u	=	1

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

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

Sita 70 70 70

Sample Output:

Ram

James Ram

Lalith

Lalith

For example:

Input Result

```
4
James 67 89 56 Ram
Lalith 89 45 45 James Ram
Ram 89 89 89 Lalith
Sita 70 70 70
```

```
Answer:(penalty regime: 0 %)
    1 st={}
    2 n=int(input())
    3 - for _ in range(n):
    4
          data=input().split()
    5
          name=data[0]
    6
         test=int(data[1])
    7
          ass=int(data[2])
    8
          lab=int(data[3])
    9
           st[name]=(test,ass,lab)
   10
   11 havg=float('-inf')
   12 lavg=float('inf')
   13 hass=float('-inf')
   14 llab=float('inf')
   15
   16 havgst=[]
   17 lavgst=[]
   18 hassst=[]
   19 llabst=[]
   20
   21 - for name, marks in st.items():
   22
           test,ass,lab=marks
   23
   24
           avgscore=(test+ass+lab)/3
   25
   26 =
           if avgscore>havg:
   27
               havg=avgscore
   28
               havgst=[name]
   29 -
           elif avgscore==havg:
   30
               havgst.append(name)
   31
   32 =
           if ass>hass:
   33
              hass=ass
   34
               hassst=[name]
   35 ∞
           elif ass==hass:
   36
               hassst.append(name)
   37
           if lab<llab:</pre>
   38 =
   39
               llab=lab
   40
               llabst=[name]
   41 ∞
           elif lab==llab:
   42
               llabst.append(name)
   43
   44 =
           if avgscore<lavg:</pre>
   45
              lavg=avgscore
   46
               lavgst=[name]
   47 =
           elif avgscore==lavg:
   48
               lavgst.append(name)
   49
   50 havgst.sort()
   51 hassst.sort()
   52 llabst.sort()
```

Feedback

Input Expected Got

```
4 Ram Ram Lalith 89 45 45 As Ram S 89 89 89 Sita 70 70 70 Ram Ram Lalith Lalith Lalith Lalith
```

```
3 ShadhanA ShadhanA Raja 95 67 90 ShadhanA ShadhanA ShadhanA Aarav 89 90 90 Aarav Raja Aarav Raja ShadhanA 95 95 91 Raja Raja
```

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

In the game of $Scrabble^{\mathsf{TM}}$, 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 $^{\text{\tiny TM}}$ score for a word. Create a dictionary that maps from letters to point values. Then use the dictionary to compute the score.

A Scrabble $^{\text{\tiny TM}}$ 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 %)

```
1 = def cal(word):
        points={'A':1,'E':1,'I':1,'L':1,'N':1,'0':1,'R':1,'S':1,'T':1,'U':1,
3
        'D':2,'G':2,
4
        'B':3,'C':3,'M':3,'P':3,
5
        'F':4,'H':4,'V':4,'W':4,
6
        'K':5,
7
        'J':8,'X':8,
8
        'Q':10,'Z':1}
9
        word=word.upper()
10
        score=sum(points.get(l,0) for l in word)
11
        return score
12 word=input()
13 score1=cal(word)
14 print(f"{word} is worth {score1} points.")
```

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 6

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

print(count_special_letters("AaBbCcDdEe")) 5

Answer:(penalty regime: 0 %)

Reset answer

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

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

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 %)

```
1 = def fun(a):
      s={'0':'!','1':'@','2':'#','3':'$','4':'%','5':'^','6':'&','7':'*','8':'>','9':'<'}
3
      a=round(a,2)
4
      astr=f"{a:.2f}"
5
      str1=''
6 ∞
       for char in astr:
7 -
        if char in s:
          str1+=s[char]
9 -
10
        str1+=char
11
      return str1
12 n=float(input())
13 print(fun(n))
```

Feedback

Input Expected Got

```
1345.23 @$%^.#$ @$%^.#$
15000.59 @^!!!.^< @^!!!.^<
1234 @#$%.!! @#$%.!!
156789 @^&*><.!! @^&*><.!!
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 8

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 <= num <= 4294967295

Sample Input 1

26

Sample Output 1

Z

For example:

Test Result

print(excelNumber(26)) Z

Answer:(penalty regime: 0 %)

Reset answer

Feedback

Test Expected Got

Correct

Marks for this submission: 1.00/1.00.

Question 9

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:

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 %)

```
1 - def find(v):
        count={}
 3 🌞
        for v1 in v:
4 -
           if v1 in count:
 5
               count[v1]+=1
 6 ∞
            else:
 7
                count[v1]=1
 8
        mv=max(count.values())
 9
        c=[c1 for c1, co in count.items() if co==mv]
10
        return min(c)
11 n=int(input())
12 v=[]
13 = for _ in range(n):
14
        v.append(input().capitalize())
print(find(v))
```

Feedback

Input Expected Got

```
10
John
John
Johny
Jamie
Jamie
       Johny
                   Johny
Johny
Jack
Johny
Johny
Jackie
6
Ida
Ida
                   Ida
Ida
       Ida
Kiruba
Kiruba
Kiruba
```

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 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 sweet sour this apple is sour
```

Answer:(penalty regime: 0 %)

```
1 → def words(s1,s2):
       w1=s1.split()
 3
       w2=s2.split()
 4
       uncommon=[]
 5 -
       for w in w1:
 6 ∞
           if w1.count(w)==1 and w not in w2:
 7
               uncommon.append(w)
       for w in w2:
 9 -
       if w2.count(w)==1 and w not in w1:
10
              uncommon.append(w)
11
       return uncommon
12 s1=input()
13 s2=input()
14 print(*words(s1,s2))
```

Feedback

Input Expected Got

```
this apple is sweet sour sweet sour apple apple banana banana
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6

This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page Show one page at a time Finish review

CS23336-Introduction to Python Programming

Started on Wednesday, 30 October 2024, 6:30 PM

State Finished

Completed on Sunday, 3 November 2024, 7:17 PM

Time taken 4 days **Marks** 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Given an array of integers nums which is sorted in ascending order, and an integer target, write a function to search target in nums. If target exists, then return its index. Otherwise, return -1.

You must write an algorithm with $O(\log n)$ runtime complexity.

Example 1:

```
Output: 4
Explanation: 9 exists in nums and its index is 4

Example 2:

Input: nums = [-1,0,3,5,9,12], target = 2
Output: -1
Explanation: 2 does not exist in nums so return -1
```

Input: nums = [-1,0,3,5,9,12], target = 9

Constraints:

- 1 <= nums.length <= 10⁴
- -10^4 < nums[i], target < 10^4
- All the integers in nums are **unique**.
- nums is sorted in ascending order.

For example:

Test Result

print(search([-1,0,3,5,9,12],9)) 4

Answer:(penalty regime: 0 %)

Reset answer

```
1 - def search(nums,target):
        l, r=0, len(nums)-1
3 -
        while <=r:
4
            m=l+(r-l)//2
5 ₹
            if nums[m]==target:
6
                 return m
            elif nums[m]<target:</pre>
8
                l=m+1
9 ==
             else:
10
                 r=m-1
11
        return -1
12
```

```
Test Expected Got

print(search([-1,0,3,5,9,12],9)) 4 4

print(search([-1,0,3,5,9,12],2)) -1 -1
```

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

☐ Flag question

Question text

An list contains N numbers and you want to determine whether two of the numbers sum to a given number K. For example, if the input is 8, 4, 1, 6 and K is 10, the answer is yes (4 and 6). A number may be used twice.

Input Format

The first line contains a single integer \boldsymbol{n} , the length of list

The second line contains n space-separated integers, list[i].

The third line contains integer k.

Output Format

Print Yes or No.

Sample Input

7

0124653

1

Sample Output

Yes

For example:

Fesult 15 8 9 12 15 3 Yes 11 6 2 9 21 32 43 43 1 No 4

Answer:(penalty regime: 0 %)

```
        Input
        Expected Got

        5
        8
        9
        12
        15
        3
        Yes
        Yes

        6
        2
        9
        21
        32
        43
        43
        1 No
        No
```

```
6
13 42 31 4 8 9 Yes Yes
17
```

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct
Mark 1.00 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:

The first line contains S1. The second line contains S2. The third line contains N.

Output Format:

The first line contains the N characters present in S1 which are also present in S2.

Boundary Conditions:

```
2 <= N <= 10
2 <= Length of S1, S2 <= 1000
```

Example Input/Output 1:

Input:

abcbde cdefghbb

Output:

bcd

Note:

b occurs twice in common but must be printed only once.

Answer:(penalty regime: 0 %)

```
1 - def fun(s1,s2,n):
        res=[]
3
        seen=set()
4 ·e
        for char in s1:
5 -
           if char in s2 and char not in seen:
6
               res.append(char)
                seen.add(char)
8 -
            if len(res)==n:
9
               break
10
        return ''.join(res)
11 s1=input()
12 s2=input()
13 n=int(input())
14 print(fun(s1,s2,n))
```

Input Expected Got

```
abcbde
cdefghbb bcd bcd
3
```

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

String should contain only the words are not palindrome.

Sample Input 1

Malayalam is my mother tongue

Sample Output 1

is my mother tongue

Answer:(penalty regime: 0 %)

```
1 ▼ def isPalindrome(word):
        j=len(word)-1
4 =
        while i<j:
5 🕏
            if word[i]!=word[j]:
6
               return False
8
           j -=1
        return True
words=input().lower().split(" ")
11 = for word in words:
12 🤋
       if not isPalindrome(word):
13
           print(word,end=" ")
14
```

Feedback

Input Expected Got

 $\label{thm:main_main} \mbox{Malayalam is my mother tongue is my mother tongue} \mbox{ is my mother tongue} \mbox$

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

You are given an m \times n integer matrix matrix with the following two properties:

- Each row is sorted in non-decreasing order.
- The first integer of each row is greater than the last integer of the previous row.

Given an integer target, return True if target is in matrix or False otherwise.

You must write a solution in O(log(m * n)) time complexity.

Example 1:



```
Input: matrix = [[1,3,5,7],[10,11,16,20],[23,30,34,60]], target = 3 Output: True
```

Example 2:



```
Input: matrix = [[1,3,5,7],[10,11,16,20],[23,30,34,60]], target = 13 Output: False
```

For example:

Test Result

```
print(searchMatrix([[1,3,5,7],[10,11,16,20],[23,30,34,60]], 13)) False
print(searchMatrix([[1,3,5,7],[10,11,16,20],[23,30,34,60]], 3)) True
```

Answer:(penalty regime: 0 %)

Reset answer

```
1 - def searchMatrix(m,t):
        if not m or not m[0]:
           return False
4
        r,c=len(m),len(m[0])
        l,r=0,r*c-1
6 -
       while l<=r:
           mid=(l+r)//2
8
            mid1=m[mid//c][mid%c]
9 -
           if mid1==t:
10
                return True
11 🌞
            elif mid1<t:</pre>
12
                l=mid+1
13 🕏
            else:
14
                r=mid-1
15
        return False
```

Feedback

Test

Expected Got

```
print(searchMatrix([[1,3,5,7],[10,11,16,20],[23,30,34,60]], 13)) False
print(searchMatrix([[1,3,5,7],[10,11,16,20],[23,30,34,60]], 3)) True
True
```

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

Balanced strings are those that have an equal quantity of 'L' and 'R' characters.

Given a balanced string s, split it in the maximum amount of balanced strings.

Return the maximum amount of split balanced strings.

Example 1:

Input:

RLRRLLRLRL

Output:

4

 $Explanation: s \ can \ be \ split \ into \ "RL", \ "RRLL", \ "RL", \ each \ substring \ contains \ same \ number \ of \ 'L' \ and \ 'R'.$

Example 2:

```
Input:
RLLLLRRRLR
Output:
3
Explanation: s \ can \ be \ split \ into \ "RL", \ "LLLRRR", \ "LR", \ each \ substring \ contains \ same \ number \ of \ 'L' \ and \ 'R'.
Example 3:
Input:
LLLLRRRR
Output:
Explanation: s can be split into "LLLLRRRRR".
Constraints:
1 <= s.length <= 1000
s[i] is either 'L' or 'R'.
s is a balanced string.
For example:
                Test
                                       Result
```

print(BalancedStrings('RLRRLLRLRL')) 4

print(BalancedStrings('RLLLLRRRLR')) 3

Answer:(penalty regime: 0 %)

Reset answer

```
1 → def BalancedStrings(s):
        b=0
3
        c=0
4 =
        for char in s:
5 🤋
            if char=='L':
6
                b+=1
7 -
8
                b-=1
9 🐷
            if b==0:
10
                c+=1
11
        return c
```

Feedback

Test Expected Got print(BalancedStrings('RLRRLLRLRL')) 4 4 print(BalancedStrings('RLLLLRRRLR')) 3 3

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 7

Correct

Mark 1.00 out of 1.00

☐ I Flag question

Question text

Given an list, find peak element in it. A peak element is an element that is greater than its neighbors.

An element a[i] is a peak element if

 $A[i\text{-}1] \mathrel{<=} A[i] \mathrel{>=} a[i\text{+}1] \text{ for middle elements. } [0\footnotesize{<}i\footnotesize{<}n\text{-}1]$

```
A[i-1] \le A[i] for last element [i=n-1]

A[i] \ge A[i+1] for first element [i=0]
```

Input Format

The first line contains a single integer n, the length of A. The second line contains n space-separated integers, A[i].

Output Format

Print peak numbers separated by space.

Sample Input

5

 $8\ 9\ 10\ 2\ 6$

Sample Output

10 6

For example:

Input Result

```
4
12 3 6 8 12 8
```

Answer:(penalty regime: 0 %)

```
1 = def find(n,arr):
       peaks=[]
3 ...
       for i in range(n):
4 -
           if i==0:
5 🕏
               if n==1 or arr[i]>=arr[i+1]:
6
                  peaks.append(arr[i])
7 ·
           elif i==n-1:
8 🔻
              if arr[i]>=arr[i-1]:
9
                  peaks.append(arr[i])
10 👁
           else:
               if arr[i]>=arr[i-1] and arr[i]>=arr[i+1]:
11 =
12
                  peaks.append(arr[i])
13
       return peaks
14 n=int(input())
15 arr=list(map(int,input().split()))
16 peaks=find(n,arr)
17 print(" ".join(map(str,peaks)))
```

Feedback

Input Expected Got

```
7
15 7 10 8 9 4 6 15 10 9 6 15 10 9 6
4
12 3 6 8
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 8

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

Sample Input 1

experience

enc

Sample Output 1

xpri

```
Answer:(penalty regime: 0 %)
```

Feedback

Input Expected Got

```
experience xpri xpri
```

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

Given an array nums containing n distinct numbers in the range [0, n], return the only number in the range that is missing from the array.

Example 1:

```
Input: nums = [3,0,1]
```

Output: 2

Explanation: n = 3 since there are 3 numbers, so all numbers are in the range [0,3]. 2 is the missing number in the range since it does not appear in nums.

Example 2:

Input: nums = [0,1]

Output: 2

Explanation: n = 2 since there are 2 numbers, so all numbers are in the range [0,2]. 2 is the missing number in the range since it does not appear in nums.

Example 3:

```
Input: nums = [9,6,4,2,3,5,7,0,1]
```

Output: 8

Explanation: n = 9 since there are 9 numbers, so all numbers are in the range [0,9]. 8 is the missing number in the range since it does not appear in nums.

For example:

Test Result

```
print(missingNumber([3,0,1])) 2
```

print(missingNumber([0,1])) 2

Answer:(penalty regime: 0 %)

Reset answer

```
1 * def missingNumber(nums):
2    n=len(nums)
3    s=n*(n+1)//2
```

```
4 sl=sum(nums)
5 return s-s1
6
```

Test	Expected	l Got
<pre>print(missingNumber([3,0,1]))</pre>	2	2
<pre>print(missingNumber([0,1]))</pre>	2	2
<pre>print(missingNumber([9,6,4,2,3,5,7,0,1]))</pre>	8	8

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

Write a Python program for binary search.

For example:

Input Result

```
1,2,3,5,8 False
3,5,9,45,42 True
```

Answer:(penalty regime: 0 %)

```
1 def search(arr,t):
2 arr.sort()
  3
         l,r=0,len(arr)-1
  4 -
        while <=r:
         m=(l+r)//2
if arr[m]==t:
  5
  6 🐨
           return True
elif arr[m]<t:</pre>
  8 🤋
  9
               l=m+1
 10 -
            else:
 11
                r=m-1
        return False
 12
 13 arr=list(map(int,input().split(',')))
 14 t=int(input())
 print(search(arr,t))
```

```
Input Expected Got

1,2,3,5,8
6 False False

3,5,9,45,42 True True
```

52,45,89,43,11 True True

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Save the state of the flags

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6 This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page

Show one page at a time Finish review

CS23336-Introduction to Python Programming

Started on Thursday, 7 November 2024, 10:29 PM

State Finished

Completed on Sunday, 10 November 2024, 11:26 PM

Time taken 3 days **Marks** 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The problem is that we want to reverse a array in O(N) linear time complexity and we want the algorithm to be in-place as well!

For example: input is [1,2,3,4,5] then the output is [5,4,3,2,1]

Input

5

1 2 3 4 5

Output

54321

For example:

Input Result

5 1 2 3 4 5 5 4 3 2 1

Answer:(penalty regime: 0 %)

Input	Expected	Got
5 1 2 3 4 5	5 4 3 2 1	5 4 3 2 1
10 0 2 4 6 8 1 3 5 7 9	9 7 5 3 1 8 6 4 2 0	9 7 5 3 1 8 6 4 2 0

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 integers nums, sort the array in **increasing** order based on the frequency of the values. If multiple values have the same frequency, sort them in **decreasing** order.

Print the sorted array.

Example 1:

```
Input:
6
1 1 2 2 2 3

Output:
3 1 1 2 2 2

Explanation: '3' has a frequency of 1, '1' has a frequency of 2, and '2' has a frequency of 3.

Example 2:

Input:
5
2 3 1 3 2
Output:
1 3 3 2 2
Explanation: '2' and '3' both have a frequency of 2, so they are sorted in decreasing order.
```

Example 3:

```
Input:
9
-1 1 -6 4 5 -6 1 4 1
Output:
5 -1 4 4 -6 -6 1 1 1
```

Constraints:

```
• 1 <= nums.length <= 100
• -100 <= nums[i] <= 100
```

For example:

Input Result

```
6
1 1 2 2 2 3 3 1 1 2 2 2
5
2 3 1 3 2 1 3 3 2 2
```

Answer:(penalty regime: 0 %)

```
1 = def fun(arr):
2
       f={}
3 -
        for n in arr:
4 -
            if n in f:
5
               f[n] += 1
6 ∞
            else:
                f[n]=1
8
       a=sorted(arr,key=lambda x: (f[x],-x))
9
       print(*a)
10 n=int(input())
11 arr=list(map(int,input().split()))
12 fun(arr)
```

Input	Expected	Got
6 1 1 2 2 2 3	3 1 1 2 2 2	3 1 1 2 2 2
5 2 3 1 3 2	1 3 3 2 2	1 3 3 2 2
9 -1 1 -6 4 5 -6 1 4	1 5 -1 4 4 -6 -6 1 1	15 -1 4 4 -6 -6 1 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 an array of integers arr, replace each element with its rank.

The rank represents how large the element is. The rank has the following rules:

- Rank is an integer starting from 1.
- The larger the element, the larger the rank. If two elements are equal, their rank must be the same.
- Rank should be as small as possible.

Example 1:

Input: arr = [40,10,20,30]

Output: [4,1,2,3]

Explanation: 40 is the largest element. 10 is the smallest. 20 is the second smallest. 30 is the third smallest.

Example 2:

Input: arr = [100, 100, 100]

Output: [1,1,1]

Explanation: Same elements share the same rank.

Example 3:

Input: arr = [37,12,28,9,100,56,80,5,12]

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

Constraints:

- $0 \le arr.length \le 10^5$
- $-10^9 \le arr[i] \le 10^9$

For example:

Test Result

```
print(arrayRankTransform([40,10,20,30])) [4, 1, 2, 3]
```

Answer:(penalty regime: 0 %)

Reset answer

```
def arrayRankTransform(arr):
    s=sorted(set(arr))
    r={value:i+1 for i,value in enumerate(s)}
    return [r[x]for x in arr]
```

Feedback

Test	Expected	Got
<pre>print(arrayRankTransform([40,10,20,30]))</pre>	[4, 1, 2, 3]	[4, 1, 2, 3]
<pre>print(arrayRankTransform([100,100,100]))</pre>	[1, 1, 1]	[1, 1, 1]
<pre>print(arrayRankTransform([37,12,28,9,100,56,80,5,12]))</pre>	[5, 3, 4, 2, 8, 6, 7, 1, 3]	[5, 3, 4, 2, 8, 6, 7, 1, 3]

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 Python program to sort a list of elements using the merge sort algorithm.

For example:

Input Result

```
\begin{smallmatrix}5\\6&5&4&3&8\end{smallmatrix} \begin{smallmatrix}3&4&5&6&8\end{smallmatrix}
```

Answer:(penalty regime: 0 %)

```
1 = def merge(arr,l,m,r):
 2
         l1=arr[l:m+1]
 3
         r1=arr[m+1:r+1]
 4
         i=0
 5
         j=<mark>0</mark>
 6
         k=l
 7 -
         while i<len(l1) and j<len(r1):</pre>
 8 -
             if l1[i]<=r1[j]:</pre>
 9
                  arr[k]=l1[i]
10
                  i+=1
11 =
12
                  arr[k]=r1[j]
                  j+=1
```

```
14
15 =
         k+=1
while i<len(l1):
16
             arr[k]=l1[i]
17
             i+=1
18
             k+=1
19 -
         while j<len(r1):</pre>
20
             arr[k]=r1[j]
21
             j+=1
22
             k+=1
23 = def mergel(arr,l,r):
24 =
        if l<r:</pre>
25
             m=(l+r)//2
26
             merge1(arr,l,m)
27
             merge1(arr,m+1,r)
28
             merge(arr,l,m,r)
29 n=int(input())
30 arr=list(map(int,input().split()))
31 merge1(arr,0,len(arr)-1)
32 print(" ".join(map(str,arr)))
```

Input	Expected	Got
5 6 5 4 3 8	3 4 5 6 8	3 4 5 6 8
9 14 46 43 27 57 41 45	21 70 ¹⁴ 21 27 41 43 45 46 57	70 14 21 27 41 43 45 46 57 70
4 86 43 23 49	23 43 49 86	23 43 49 86

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 5

Correct

Mark 1.00 out of 1.00

Flag guestion

Question text

Bubble Sort is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements if they are in wrong order. You read an list of numbers. You need to arrange the elements in ascending order and print the result. The sorting should be done using bubble sort.

Input Format: The first line reads the number of elements in the array. The second line reads the array elements one by one.

Output Format: The output should be a sorted list.

For example:

```
Input Result

6
3 4 8 7 1 2 1 2 3 4 7 8

5
4 5 2 3 1 1 2 3 4 5
```

```
Answer:(penalty regime: 0 %)

1 = def bubble(arr):
2    n=len(arr)
3 - for i in range(n):
```

Input Expected Got 63 4 8 7 1 2 1 2 3 4 7 8 1 2 8 1 3 4 6 8 8 1 2 3 4 6 9 18 1 3 4 6 9 18 69 18 1 3 4 6 1 3 4 6 9 18 1 3 4 6 9 18 54 5 2 3 1 1 2 3 4 5 1 3 4 5 1 2 3 4 5

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

Objective:

Develop a Python program to find the k-th maximum value in a given list of integers. The program should handle various edge cases, including lists with duplicate values, empty lists, and invalid values of k. The k-th maximum value refers to the k-th largest distinct element in the list.

Background:

Finding the k-th maximum value in a list is a common problem in computer science, often encountered in fields like data analysis, competitive programming, and software development. This problem requires an understanding of sorting algorithms, data structures, and efficient problem-solving techniques. By solving this problem, one gains insights into how to handle large datasets and optimize performance in practical applications.

Problem Description:

Given a list of integers, the task is to determine the k-th maximum value in the list. The program should meet the following requirements:

1. Input:

- $\circ~$ A list of integers, which can contain both positive and negative values.
- An integer k, representing the position of the maximum value to find.

2. Output:

- The k-th maximum value in the list.
- If k is greater than the number of distinct elements in the list or if the list is empty, the program should return an appropriate message indicating the error.

Constraints:

- The list may contain duplicate values.
- The value of k should be a positive integer.
- The list may contain up to 10⁶ elements, and each element can be as large as 10⁹ in magnitude.

Examples:

Consider the following examples for better understanding:

1. **Example 1:**

- **Input:** list = [3, 1, 5, 4, 2], k = 2
- Output: 4
- Explanation: The distinct elements in the list are [1, 2, 3, 4, 5]. The 2nd maximum value is 4.

2. **Example 2:**

- **Input:** list = [7, 7, 7, 7, 7], k = 1
- **Output:** 7
- Explanation: The distinct elements in the list are [7]. The 1st maximum value is 7.

3. **Example 3:**

- **Input:** list = [2, 1, 2, 1, 2], k = 3
- **Output:** -1
- Explanation: The distinct elements in the list are [1, 2]. There is no 3rd maximum value.

For example:

```
Answer:(penalty regime: 0 %)
```

			I	nput	Expected	Got
5 3 2	1	5	4	2	4	4

```
0
7 7 7 7 7 7 7 7 7 7
10
2 1 2 1 2 1 2 1 2 1 -1 -1
```

Correct

Marks for this submission: 1.00/1.00.

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Given an integer array nums sorted in **non-decreasing** order, return an array of **the squares of each number** sorted in non-decreasing order.

Example 1:

```
Input: nums = [-4,-1,0,3,10]
Output: [0,1,9,16,100]
Explanation: After squaring, the array becomes [16,1,0,9,100].
After sorting, it becomes [0,1,9,16,100].
```

Example 2:

Input: nums = [-7,-3,2,3,11]
Output: [4,9,9,49,121]

Constraints:

- 1 <= nums.length <= 10^4
- $-10^4 \le nums[i] \le 10^4$
- nums is sorted in **non-decreasing** order.

For example:

Test Result

print(sortedSquares([-4,-1,0,3,10])) [0, 1, 9, 16, 100]

Answer:(penalty regime: 0 %)

Reset answer

```
1 - def sortedSquares(nums):
        n=len(nums)
 3
        res=[0]*n
 4
        l,r=0,n-1
 5
        pos=n-1
        while <=r:
 7
            l1=nums[l]**2
 8
            r1=nums[r]**2
 9 =
            if l1>r1:
10
                res[pos]=l1
11
                l+=1
12 -
            else:
13
                res[pos]=r1
14
                r-=1
15
            pos-=1
16
        return res
17
18
```

 Test
 Expected
 Got

 print(sortedSquares([-4,-1,0,3,10])) [0, 1, 9, 16, 100] [0, 1, 9, 16, 100]
 1, 9, 16, 100]

 print(sortedSquares([-7,-3,2,3,11])) [4, 9, 9, 49, 121] [4, 9, 9, 49, 121]

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

To find the frequency of numbers in a list and display in sorted order.

Constraints:

1<=n, arr[i]<=100

Input:

1 68 79 4 90 68 1 4 5

output:

1 2

4 25 1

68 2

For example:

Input Result

Answer:(penalty regime: 0 %)

Input	Expected	Got
4 3 5 3 4 5	3 2 4 2 5 2	3 2 4 2 5 2
12 4 4 4 2 3 5	2 1 3 1 4 3 5 1 12 1	2 1 3 1 4 3 5 1 12 1
5 4 5 4 6 5 7 3	3 1 4 2 5 3 6 1 7 1	3 1 4 2 5 3 6 1 7 1

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

Given an list of integers, sort the array in ascending order using the *Bubble Sort* algorithm above. Once sorted, print the following three lines:

- 1. List is sorted in numSwaps swaps., where numSwaps is the number of swaps that took place.
- 2. First Element: firstElement, the *first* element in the sorted list.
- 3. Last Element: lastElement, the *last* element in the sorted list.

For example, given a worst-case but small array to sort: a=[6,4,1]. It took 3 swaps to sort the array. Output would be

Array is sorted in 3 swaps.

First Element: 1
Last Element: 6

Input Format

The first line contains an integer, n, the size of the list a. The second line contains n, space-separated integers a[i].

Constraints

- · 2<=n<=600
- $1 <= a[i] <= 2x10^6$.

Output Format

You must print the following three lines of output:

- 1. List is sorted in numSwaps swaps., where numSwaps is the number of swaps that took place.
- 2. First Element: firstElement, the *first* element in the sorted list.
- 3. Last Element: lastElement, the *last* element in the sorted list.

Sample Input 0

3

123

Sample Output 0

List is sorted in 0 swaps.

First Element: 1

Last Element: 3

For example:

```
Input Result

3 2 1 List is sorted in 3 swaps.
First Element: 1
Last Element: 3

5 1 9 2 8 4 First Element: 1
Last Element: 9
```

Answer:(penalty regime: 0 %)

```
1 - def bubble(arr):
 2
       n=len(arr)
 3
       num=0
 4 -
        for i in range(n):
 5
            swapped=False
 6 ∞
            for j in range(0,n-i-1):
 7 =
               if arr[j]>arr[j+1]:
 8
                   arr[j],arr[j+1]=arr[j+1],arr[j]
 9
                   num+=1
10
                   swapped=True
11 🖘
           if not swapped:
12
               break
13
      return num,arr[0],arr[-1]
14 n=int(input())
15 arr=list(map(int,input().split()))
16 num,f,l=bubble(arr)
17 print(f"List is sorted in {num} swaps.")
18 print(f"First Element: {f}")
19 print(f"Last Element: {l}")
```

Feedback

```
Input Expected Got

3 2 1 List is sorted in 3 swaps. List is sorted in 3 swaps.
First Element: 1 First Element: 1
Last Element: 3 Last Element: 3

5 1 9 2 8 4 First Element: 1
Last Element: 1
Last Element: 1
Last Element: 9

Last Element: 9
```

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

Given an integer array nums, return an integer array counts where counts[i] is the number of smaller elements to the right of nums[i].

Example 1:

```
Input: nums = [5,2,6,1]
Output: [2,1,1,0]
Explanation:
To the right of 5 there are 2 smaller elements (2 and 1).
To the right of 2 there is only 1 smaller element (1).
To the right of 6 there is 1 smaller element (1).
To the right of 1 there is 0 smaller element.
```

Example 2:

```
Input: nums = [-1]
Output: [0]
```

Example 3:

```
Input: nums = [-1,-1]
Output: [0,0]
```

Constraints:

```
    1 <= nums.length <= 10<sup>5</sup>
    -10<sup>4</sup> <= nums[i] <= 10<sup>4</sup>
```

For example:

```
Test Result
```

```
print(countSmaller([5,2,6,1])) [2, 1, 1, 0]
print(countSmaller([-1])) [0]
```

Answer:(penalty regime: 0 %)

```
Reset answer
```

```
1 - def countSmaller(n):
 2 -
        def merge(e):
 3
            m=len(e)//2
 4 -
            if m:
 5
                l,r=merge(e[:m]),merge(e[m:])
 6 ∞
                 for i in range(len(e)-1,-1,-1):
 7 =
                     if not r or l and l[-1][1]>r[-1][1]:
 8
                         res[l[-1][0]]+=len(r)
 9
                         e[i]=l.pop()
10 -
                     else:
11
                         e[i]=r.pop()
12
            return e
13
        res=[0]*len(n)
14
        merge(list(enumerate(n)))
15
        return res
16
17
18
19
```

```
      Test
      Expected
      Got

      print(countSmaller([5,2,6,1]))
      [2, 1, 1, 0] [2, 1, 1, 0]

      print(countSmaller([50,20,60,10]))
      [2, 1, 1, 0] [2, 1, 1, 0]

      print(countSmaller([-1]))
      [0]
```

print(countSmaller([-1, -1])) [0, 0] [0, 0]

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6 This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page

Show one page at a time Finish review

CS23336-Introduction to Python Programming

Started on Monday, 11 November 2024, 9:11 AM

State Finished

Completed on Monday, 11 November 2024, 1:25 PM

Time taken 4 hours 13 mins Marks 10.00/10.00

Grade **100.00** out of 100.00

Question 1

Correct Mark 1.00 out of 1.00 Flag question

Question text

Develop a Python program to read a specific line from a text file based on a given line number.

Description:

1. Input:

- A text file with multiple lines.
- A line number to read.

2. Output:

• The content of the specified line.

input1.txt:

Line one.

Line two.

Line three.

Line four.

For example:

Input Result

```
input1.txt Line three.
```

Answer:(penalty regime: 0 %)

```
1 input_file=input()
  line number=int(input())
3 - def fun(input_file,line_number):
4 🖘
           with open(input file, 'r') as file:
5
               lines=file.readlines()
6 ∞
           if 1<=line_number<=len(lines):</pre>
7
               print(lines[line_number-1].strip())
  fun(input_file,line_number)
```

```
input1.txt Line three. Line three.
3
input2.txt
3 Line C. Line C.
```

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Create a Python program to find the longest word in a text file.

- Input:
 - A text file containing multiple lines of text.
- Output:
 - The longest word in the file.

For example:

Input Result

input1.txt Longest word: containing

Answer:(penalty regime: 0 %)

```
1 input_file=input()
2 - def longest1(input_file):
3 -
       with open(input_file,'r') as file:
4
           longest=""
5 =
           for line in file:
6
                words=line.split()
7 -
                for word in words:
8 =
                   if len(word)>len(longest):
9
                       longest=word
10
        print("Longest word:",longest)
11 longest1(input_file)
```

Feedback

Input Expected Got

input1.txt Longest word: containing Longest word: containing

input2.txt Longest word: thousand Longest word: thousand

input3.txt Longest word: supercalifragilisticexpialidocious Longest word: supercalifragilisticexpialidocious

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

Write a Python program to reverse the contents of a specific line in a text file based on a given line number.

Description:

- 1. Input:
 - A text file with multiple lines.
 - A line number to reverse.

2. Output:

• The updated file with the specified line's contents reversed in file "output.txt".

Example:

• Input File Content:

```
"Line one.
Line two.
Line three.
Line four."
```

Output:

Line one. Line two. eerht eniL. Line four.

For example:

```
with open('output.txt', 'r') as file:
    text = file.read()
    print(text)
Input
Line one.
input1.txt Line two.
3 eerht eniL.
Line four.
```

Answer:(penalty regime: 0 %)

```
1  fi=input()
2  n=int(input())
3  with open(fi,'r') as f:
4   l=f.readlines()
5  l[n-1]=l[n-1][::-1]
6  l[n-1]=[n-1][2:]+'\n'
7  with open('output.txt','w') as f:
8   f.writelines(l)
```

```
print(text) 2 Line C. Line C.
```

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Create a Python program to write to a specific line in a text file, replacing the existing content of that line.

Description:

- 1. Input:
 - A text file with multiple lines.
 - A line number to write to.
 - New content for the specified line.

2. Output:

• The updated file with the specified line replaced by the new content in file "output.txt".

Example:

• Input File Content:

"Line one. Line two. Line three. Line four."

Updated line two.

Output:

Line one. Updated line two. Line three.

Line four.

For example:

Test Input Result

with open('output.txt', 'r') as file: input1.txt Updated line two. text = file.read() 2 Updated line two. Line three. Line four.

```
Answer:(penalty regime: 0 %)
```

Test		Input	Expected	Got
<pre>with open('output.txt', text = file.read() print(text)</pre>	'r') as file:	input1.txt 2 Updated line two.	Line three.	Line one. Updated line two. Line three. Line four.
<pre>with open('output.txt', text = file.read() print(text)</pre>	'r') as file:	input2.txt 2 Line B Updated.	Line A. Line B Updated. Line C.	Line A. Line B Updated. Line C.

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 5

Correct

Mark 1.00 out of 1.00

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Question text

Develop a Python program to copy the contents of one file to another file.

Description:

1. Input:

• Source file and destination file names.

2. Output:

• The content of the source file copied to the destination file.

For example:

```
Input
                                                                                                   Result
                          Test
with open('output1.txt', 'r') as file:
    text = file.read()
    print(text)
This is the source file.

input1.txt
Output1.txt
Here is another line.
```

Answer:(penalty regime: 0 %)

```
1 i=input()
2 o=input()
3 * with open(i,'r') as f:
4 🤋
      with open(o,'a') as f1:
5
           f1.write(f.read())
```

Test	Input	Expected	Got
<pre>with open('output1.txt', 'r') as fi text = file.read() print(text)</pre>	le:	This is the source file.	This is the source file.
	input1.txt	It contains multiple lines of text.	It contains multiple lines of text.
	output1.txt	Here is another line.	Here is another line.

```
with open('output2.txt', 'r') as file:
    text = file.read()
    print(text)

with open('output3.txt', 'r') as file:
    text = file.read()
    print(text)

with open('output3.txt', 'r') as file:
    text = file.read()
    print(text)

input3.txt
    output3.txt
    output3.txt
    output3.txt

Single line.
Single line.
```

Correct

Marks for this submission: 1.00/1.00.

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Develop a Python program to identify and print all palindrome words from a given text file.

Description:

1. Input:

• A text file containing multiple words.

2. Output:

• A list of palindrome words found in the file name as 'output.txt'.

For example:

Answer:(penalty regime: 0 %)

Feedback

Test Input Expected Got

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 Python program to count the frequency of each word in a given text file.

Description:

- 1. Input:
 - String as input.
- 2. Output:
 - A list of words with their corresponding frequency count to be write in a file "output.txt"

Example:

• Input File Content:

apple orange apple banana apple orange

Output:

apple: 3 orange: 2 banana: 1

For example:

Test Input Result

with open('output.txt', 'r') as file:
 text = file.read() apple orange apple banana apple orange banana: 1
 print(text) orange: 2

Answer:(penalty regime: 0 %)

```
1 n=input()
2 l=''.join([c for c in n if c.isalnum()or c.isspace()])
3 l=l.split()
4 l=sorted(l,key=str.lower)
5 d={}
6 ⇒ for i in l:
       d[i.lower()]=str(l.count(i))
7
8 s=''
9 - for i in d:
      s+=(i+': '+d[i]+'\n')
10
f=open('output.txt','w')
12 f.write(s)
13 f.close()
14
15
```

Test	Input	Expected	Got
<pre>with open('output.txt', 'r') as file: text = file.read() print(text)</pre>	apple orange apple banana apple orange	apple: 3 banana: 1 orange: 2	apple: 3 banana: 1 orange: 2
<pre>with open('output.txt', 'r') as file: text = file.read() print(text)</pre>	Hello world! Hello everyone. Welcome to the world of programming.	everyone: 1 hello: 2 of: 1 programming: 1 the: 1 to: 1 welcome: 1 world: 2	everyone: 1 hello: 2 of: 1 lprogramming: 1 the: 1 to: 1 welcome: 1 world: 2

		blue: 1	blue: 1
with open('output.txt', 'r')	as file:	fish: 4	fish: 4
<pre>text = file.read()</pre>	One fish two fish Red fish blue fish	one: 1	one: 1
<pre>print(text)</pre>		red: 1	red: 1
		two: 1	two: 1

Correct

Marks for this submission: 1.00/1.00.

Question 8

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Create a Python program to delete a specific line from a text file based on a given line number.

Description:

- 1. Input:
 - A text file with multiple lines.
 - A line number to delete.

2. Output:

• The updated file with the specified line removed in file "output.txt".

Example:

• Input File Content:

"Line one. Line two. Line three. Line four."

Updated line two.

Output:

Line one. Line three. Line four.

For example:

with open('output.txt', 'r') as file: text = file.read() print(text) Input Result input1.txt Line one. Line three. Line four.

Answer:(penalty regime: 0 %)

```
1    i=input()
2    o='output.txt'
3    n=int(input())
4    with open(i,'r')as f:
5    l=f.readlines()
6   l.remove(l[n-1])
7    with open(o,'w') as f:
        f.writelines(l)
```

with open('output.txt', 'r') as file: text = file.read() print(text) Input Expected Got input1.txt Line one. Line one. Line three. Line three. Line four. Line four. with open('output.txt', 'r') as file: text = file.read() print(text) input2.txt Line A. Line A. Line B.

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

Develop a Python program to read a text file and count the total number of words in the file.

Description:

1. Input:

- A text file containing several lines of text.
- File name you should get as input.

2. Output:

• The total number of words in the file.

For example:

Input Result

```
input2.txt Total words: 14
input3.txt Total words: 15
```

Answer:(penalty regime: 0 %)

Feedback

Input Expected Got

input1.txt Total words: 6 Total words: 6

```
input2.txt Total words: 14 Total words: 14
input3.txt Total words: 15 Total words: 15
```

Correct

Marks for this submission: 1.00/1.00.

Question 10

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Write a Python program to append a new line at a specific position in a text file, shifting existing lines down.

Description:

1. Input:

- $\circ~$ A text file with multiple lines.
- A line number to insert the new line at.
- New content for the new line.

2. Output:

• The updated file with the new line inserted at the specified position, shifting the existing lines down in file "output.txt".

Example:

• Input File Content:

"Line one. Line two. Line three. Line four."

Inserted line..

Output:

Line one. Line two. Inserted line. Line three. Line four.

For example:

Test Input Result

Line one.

with open('output.txt', 'r') as file: input1.txt Line two.

text = file.read() 3 Inserted line.

print(text) Inserted line. Line three.

Line four.

```
Answer:(penalty regime: 0 %)
```

Test		Input	Expected	Got
<pre>with open('output.txt', text = file.read() print(text)</pre>	'r') as file:	input1.txt 3 Inserted line.	Line one. Line two. Inserted line. Line three. Line four.	Line one. Line two. Inserted line. Line three. Line four.
<pre>with open('output.txt', text = file.read() print(text)</pre>	'r') as file:	input2.txt 4 Inserted line D.	Line A. Line B. Line C. Inserted line D.	Line A. Line B. Line C. Inserted line D.

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

Skip Quiz navigation

Quiz navigation

Question 1 This page Question 2 This page Question 3 This page Question 4 This page Question 5 This page Question 6 This page Question 7 This page Question 8 This page Question 9 This page Question 10 This page

Show one page at a time Finish review