Question

Correct

1.00 out

1

Mark of 1.00

V Flag question

the code to get float input from the keyboard. (No need to assign to a variable)

Answer: float(input())

The correct answer is: float(input())

Question 2

Correct

Mark 1.00 out of 1.00

V Flag question

What will be the output of the following python Codemystring="India is my country" print(type(mystring))

a. class str

b. str

c. <class 'str'> v'

d. 'str'

Your answer is correct.

The correct answer is:

<class 'str'>

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Type

Who developed the Python language?

a. Bill Gates

b. Dennis Ritchie c. Von Neumann

Question

Correct

1.00 out

question

d. Guido Van Rossum V

Your answer is correct.

The correct answer is: Guido Van Rossum

4

Mark of 1 .00

V Flag

Question 6

Correct

Mark 1.00 out of 1 .00

Flag question

What do we use to define a block of code in Python

language?

a. Curly brace

b. Parenthesis

c.

Indentatio

n V d. Key

Question 5

Correct

Mark 1.00 out of 1 .00

Flag question

Your answer is correct.

The correct answer is: Indentation

What will be the datatype of the var in the below code snippet?

var=

10

print(t

ype(va

r)) var

Question

Correct

1.00 out

=

"

H

e

l

l

o

"

p

r

i

n

t

(

t

y

pe(var

))

a. No output

b. int and int

c. float and str

d. int and str ✓

Your answer is correct.

The correct answer is:

int and str

Which of the following functions is a built-in function in python language?

a. print() V

b. val()

c. scanf()

d. printf()

Your answer is correct.

The correct answer is:

print()

7 Which of the following declarations is incorrect in python language?

Mark of 1.00

V Flag question

a. xyzp =5,000,000

b. = 5000, 6000, 7000, 8000 v

c. xyz p = 5000 6000 7000 8000

Question

Correct

1.00 out

question

d. X-Y-Z-p =5,000,0

Your answer is correct.

The correct answer is:
x,y,z,p= 5000, 6000, 7000, 8000

Question

Correct out

8

Mark 1.00 Of 1.00

Flag question

Mark 1.00 out of 1.00

V Flag question

What will be the output of the following code snippet?

```
print(type(5 / 2))
```

a. float s/

b. obj

c. int

d. str

Your answer is correct.

The correct answer is: float

Question 9

Correct

Mark 1.00 out Of 1.00

Flag question

What will be the output of the following code snippet?

```
print(a, b)
a, b = b, a
print(a, b)
```

a. 3 1 v 13

b. No output

c. 1 3 3 1

d . 3 1 3Your answer is correct. The correct answer is: 1 3 0

Question 10

Correct

Question 1

Correct

Mark 1.00 Out

question

1 Which one of the following is the correct extension of the Python file? **Error! Bookmark not defined.**

a. .cpp

b. .python

c. .p

d. .py V

1.00 Flag

Write a program to convert strings to an integer and float and display its type.

Of

Sample Input:

10

10.9

Sample Output:

1 'int'>

10.9,<class 'float'>

For example:

Input	Result
10 10.9	10,<class 'int'> > 10.9, <class 'float' >

Answer: (penalty regime: O %)

2

2

o

u

t

o

f

q

u

e

s

t

i

o

n

```
a=int(input())
b=float(input()) print(a, " , " ,
(type(a)) , sep= print("%.       , "
          , sep:"
```

	Input	Expected	
	10 10 .9	10, <class 'int' > 10.9,<class 'float'>	10, <class 10.9, <class
	12 12 .5	12,<c1ass 'int' >12, 12.5,<c1ass 'float' <class	<class >12.5,

Question 3

Correct

M

a

r

k

1

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0

0

O

u

t

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u

e

s

t

i

o

n

V	89 7.56	89,<c1ass 'int' >' 7.6,<class 'float'>	89,<class 7.6,<class
	55000 56 .2	55000, <class ' int'> 56.2, <class ' float	55000 , <clas 56.2, <class
	2541 2541 . 679	2541 ,<class 'int 2541 .7,<c1ass 'float '> 2541 . 7, <CIE	2541 ,<class

Passed all tests! ✓

Question

Correct

Ramesh's basic salary is input through the keyboard. His dearness allowance is 40% of his basic salary, and his house

4

o

u

t

o

f

q

u

e

s

t

i

o

n

Mark 1.00 rent allowance is 20% of his basic salary. Write a program to 1.00 calculate his gross salary.

V Flag

Sample Input:

10000

Sample Output:

16000

For example:

Input	Result
10000	16000

Answer. (penalty regime: O %)

Question 5
Correct

M

a

r

k

1

.

0

0

O

u

t

q

u

e

s

t

i

o

n

```
a=int(input(
b=(40/100)*a
c=(20/100)*a
d=b+c+a
print(d)
```

=int(input())

6

o

u

t

o

f

q

u

e

s

t

i

o

n

	Input Expected Got				
V	Input	Expected	Got		1 6000.0
	10000	16000	16000.0	✓	
	20000	32000	32000.0	✓	
	20000	32000			32000.0
	28000 44800				44800.0
	5000	8000	8000.0	✓	8000. o

. Passed all tests! V

Correct

Marks for this submission: 1.00/I .00.

Question 7

Correct

Mark 1.00 out of

question

Write a simple python program to find the square root of a given floating point number. The output should be displayed with 3 decimal places.

1.00

Flag

Sample Input:

8.00

Sample Output:

2.828

For example:

Input	Result
14.00	3.742

Answer. (penalty regime: O %)

```
a=float(input())
b=a**(1/2)
print("%.3f"%b)
```

2
3

Question 8

1.00 Out of

question

	Input	Expected	Got	
✓	8.00	2.828	2.828	✓
✓	14.00	3.742	3.742	✓
✓	4.00	2.000	2.000	✓
✓	487	22.068	22.068	✓

Passed all tests! V

Correct

Marks for this submission: 1.00/1.00.

Correct

Mark 1.00

V Flag gain

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 percent.

Input Format:

The first line contains the Rs X
The second line contains Rs Y
The third line contains Rs Z
Sample Input:

10000

250

15000

Sample Output:

46.34 is the gain percent.

For example:

Input	Result
45500 500 60000	30.43 is the gain percent.

Answer. (penalty regime: 0 %)

Question 9

Correct

Mark 1.00 out of

1.00 or

Flag question

```
")
```

```
a=int(input())
b=int(input())
c=int(input())
d=((c-(a+b)))/(a+b)*100
print("%.2f"%d,"is the "is the gain percent.
```

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

Passed all tests! v

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:

Question 10

1.00 Out of

question

Input	Result
20 20	Your total refund will be $7.00.

Answer: (penalty regime: O %)

```
1 a=int(input())
2 b=int(input())
3 c=a*0.10
4 d=b*0.25
5 z=c+d
6 print("Your total refund will be ","%.2f."
```

total refund Will

	Input	Expected	
v 20	20	Your total refund will be $7.00.	Youl
✓	11 22	Your total refund will be $6.60.	You'
✓	123 200	Your total refund will be $62.30. Youn	
✓	76 38	Your total refund will be $17.10.	You'

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

11

out of

question

Question

Correct

Mark 1.00

V Flag

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 1.00 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 z abs(number) pr int (absolute_number) # Output: 20

Sample Input:

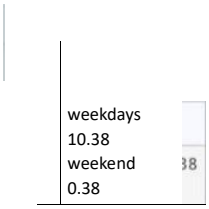
450 Sample

Output:

weekdays 10.38

weekend 0.38

For example: Input



Result

450

Answer: (penalty regime: O %)

	Input	Expected	Got	
✓	450	weekdays 10.38 weekend 0.38	weekdays 10.38 weekend 0.38	✓
✓	500	weekdays 10.00 weekend 0.00	weekdays 10.00 weekend 0.00	✓
✓	10000	weekdays 83.08 weekend 73.08	weekdays 83.08 weekend 73.08	✓
✓	6789	weekdays 58.38 weekend 48.38	weekdays 58.38 weekend 48.38	✓

Passed all tests! ✓

What is the output the following

```
Salary=int(input())
2
3    weekdays-weekends* 10    )
4  print("weekdays { : .2f}" .format(weekdays))
5    print("weekend { : .20" . format(weekends))
```

Question 1
Complete
Flag question

Ord« Of precedence in python? I Multiplication

2. **Division**

4. **Parentheses** 4.Addition 5.**Exponentiation**

1.2.3.45

b.

1.5,2.43

3.5.1.2.4

Question 2

What is the two's complementof .44?

Complete

CIE

a. 11010100

b 11101011

c. 1011011

d. 10110011

Which of the following is not a valid variable name in Python?

Complete

CIFFlag

a. **5var**

b. varll

var_nam

e

Question 4
Complete
Flag question

What is the

d.

of code

```
x = [                x ["apple", "banana"]
y = ['               ["apple", "banana"]
z = x
print(x is z)
print(x is y)
print(x
      y)
```

a.
True
False
False

b.
True
True
True

c. True
False

Question 5
Complete
Flag question

What is the output of the following code

```
print(bool(0), bool(3.14159), bool(-3), bool (1.0+1'))
```

- False True False True

- True True False True

- False True True True

d.
. True True False True

Cueston 6
Complete

An identifier can have a maximum length of — characters in Python.

b. 31

c. 79

d. 7

What is the output the following

Question 7
Complete
Flag question

```
x = 8
y = 2
print(x ** y)
```

ot code

print(x // y)

64

b. 64

c. 64 d.

64

Question8

Which is the following is an Arithmetic operator in Python?

Complete

1. // (floor division) operator
question 2. & (binary and) operator 3 —
(navigation) operator
5. > > (right shift) operator

b.4

d. 1

Question 9
Complete
Flag question

What Will be the output Of statement**2**2

a. 32768 b.

65536

c. 256

d.16

Question 10

What is the value of the expression

Complete print(lao 25} print
Flag question (lae//25)

What the following

a. 4.0

b. 4.00
4
4

c. 4.0

d. 4.0

11

of code

Com plete

q ueStion

= 10

print(x % y)

a.

b. 10

c. 4

d. 1

Question 12
Complete
Flag question

In the a and b are _____
a + 6 - c-d is _____ Python statement x= a + 6

a. operands, an equation

b. operators, a statement

c. terms, a group d. operands, an expression

Questic n 13
Complete
Fl
question

State the output Of the following code.

Flag num1 = 10
num2 = 20

sum z numl + num2
print(sum)

a. Error b. 10

What is the output the following

c. 1020

d. 30

Question 14 x in Python expression, if the result of that expression is 2? will be the value of

b. 4

c.

d. 2

Question 15

Complete

Flag question

Which Of the following statements assigns the value 35 to the variable x in Pyfion:

a. int x 35

b. x =x 35

c. x :=35

d. x ← 35

Question 1

Correct

Mark 1.00 out of 1.00

Dt- Flag

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 tiO•n 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 lg 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(1F ELIGIBLE)

Display False (if not eligible)

Sample Input

Sample Output

For example:

Input	Result
	False

Answer: (penalty regime: O %)

```
age—int (input ) weight—int (input ) print (age>=18 and weight>40)
```

	Input	Expected	Got	
✓	19 45	True	True	✓
✓	18 40	False	False	✓
✓	18 42	True	True	✓
✓	16 45	False	False	✓

Passed all tests! ✓

Correct

Md'ks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 ou 1.00

Flag question

Write a python program that takes a integer between O and 15 as input and displays the number of •1 s in its binary form.(Hintuse python bitwise operator.

Cut Of

Sample Input

Sample Output:

Explanation:

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

For example:

Input	Result

Answer: (penalty regime: O %)

```
z=int(input())
y=bin(z)[2:]
count=0
for i in y :
    if(i=='1'
        count
print
(count)
```

41

	Input	Expected	Got	
✓	3	2	2	✓
✓	5	2	2	✓
✓	15	4	4	✓

Passed all tests! ✓

Correct

Marks tor this submission: 1.00/1.00

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Mr. X's birthday is in next month. This time he is planning to invite N of his friends. He wants to distribute some chocolates to all of his friends after the party. He went to a shop to buy a packet ot chocolates. At the chocolate shop, 4 packets are there with different numbers of chocolates. He wants to buy such a packet which contains a number of chocolates, which can be distributed equally among all of his friends. Help Mr. X to buy such a packet.

Input Given:

N-No of friends

P1.P2.P3AND P4-No of chocolates

"True" if he can buy that packet and "False" if he cant buy that packet

SAMPLE INPUT AND OUTPUT:

```
25
12
10
```

True False True False

For example:

Input	Result
5 25 23 20 10	true False rrue True

Answer: (penalty regime: O %)

```
N—int (input() ) pl=int
      :(input())
      :(input())
      :(input())
      :(input())
      (p1%N==0,p2%N==0,p3%N==0,p4%N==0)
(input p2=int (input ( ) )
pS=int (input pa—int
(input ) print
```

	Input	Expected	Got	
✓	5 25 23 20 10	True False True True	True False True True	✓
✓	4 23 24 21 12	False True False True	False True False True	✓
✓	8 64 8 16 32	True True True True	True True True True	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

pretend that you have just opened a new savings account that earns 4 percent interest per year. The interest that you earn paid at the end Of the year, and is added to the balance of the savings account. Write a program that begins by reading the amount of money deposited into the account from the user. Then your program should compute and display the amount in the savings account after 1, 2, and 3 years. Display each amount so that is rounded to 2 decimal places. Sample Input: 10000 Sample Output: Balance as of end of Year 1: 510400.00. Balance as of end of Year 2: $10816.00. Balance as of end of Year 3: Sl 124864. For example:

Input	Result
1 aøee	Balance as of emd of Year 1 : Sløaøe.øe. Balance as of Of Year 2 : $10816.øe. Balance as of of Year 3 : 511248.64.

Answer: (penalty regime: O%)

```
x=int (input() ) intrest•O. 04
year1=((0.    (0.04*x) •x)
year2=((0.    (O. 04 tyearl)
year3=((0.    +yearl)
 04 *year2) +year2) print ("Balance as
of of print ("Balance as end of print
("Balance as Of end Of
```

```
Year  1: ${:.2f}.".    2f} " . format
Year  2: ${:.2f}.".    (year I)) . .
Year  3: ${:.2f}.".    format (yean))
                       . format (years))
```

	Input	Expected	Got	
✓	10000	Balance as of end of Year 1: $10400.00. Balance as of end of Year 2: $10816.00. Balance as of end of Year 3: $11248.64.	Balance as of end of Year 1: $10400.00. Balance as of end of Year 2: $10816.00. Balance as of end of Year 3: $11248.64.	✓
✓	20000	Balance as of end of Year 1: $20800.00. Balance as of end of Year 2: $21632.00. Balance as of end of Year 3: $22497.28.	Balance as of end of Year 1: $20800.00. Balance as of end of Year 2: $21632.00. Balance as of end of Year 3: $22497.28.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1 m,

Question 5

Correct

1.00

Flag question

In London, every year during Dasara there will be a very grand doll show. People try to invent new dolls of different varieties. The best-sold doll's creator will be awarded with a cash prize So people broke their heads to create dolls innovatively. Knowing this competition, Mr.Lokpaul Mark 1.00 out oftried to create a doll that sings only when an even number is pressed and the number should not be zero and greater than 100. IF Lokpaul wins print true, otherwise false.

Sample Input

Sample Output

Explanation:

Since 10 is an even number and a number between O and 11%', True is printed

For example:

Input	Result
	False

Answer: (penalty regime: O %)

Answer: (penalty regime: O %)

```
x=int  (input  (  )  )  if
xS2=o:
        print "True") else:
        print ("False")
```

	Input	Got		
		Expected		
		True		
	lei	False		

Question 6
Correct
Mark 1.00 out of 1.00
Flag question

In the 18005, 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:

Sample Output:'

False

For example:

Input	Result
32 43	False

Answer: (penalty regime: O%)

Answer: (penalty regime: 0 96)

```
x=int(input())
y=int(input())
if x%3==0 and y%2==0 :
    print ( "True")
else:
    print "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 7
Correct
Mark 1.00 out of 1.00
Flag question

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

Sample Input

100

Sample Output

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

For example:

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

Answer: (penalty regime: O%)

```
cost—int (input
    tax=0.05*cost
    tip=0.18*cost
    total=cost+tax+tip
    print("The tax is {:.02 f} and the tip is C :
                                                    making the total    " . format (tax, tip, total) )
```

	Input	Expected	
✓	100	The tax is 5 s s.øa and the tip is 18. 00, making e total 123.00	is 5.00 and the tip is 18.00, making the tip
✓	250	The tax is 1 s 12.50 and the tip s 45.øe, .00, making the total 387.5e	The tax is 12.50 and the tip is 45.00, making the tof tax is

Passed all tests!

Marks for this submission; l.OO/IW

Question 8
Correct
Mark 1.00 out 1.00
Flag question

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. of
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

Answer: (penalty regime O %)

```
x—int (input()) rabs (x)

print (z)
```

	Input	Expected	Got	
✓	197	7	7	✓
✓	-197	7	7	✓

Passed all tests! ✓

Correct

Marks torthissubmission: 1.00/1,00.

Question 9
Correct
Mark 1.00 out of 1.00
Flag question

MrRam has been given a problem kindly help him to solve it. The input of the program is either O or 1. IF O 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<=

Output Format:

output a single character "C" or "O"depending on the value of x.

Inpue It

Output1:

Input 2:

```
1

Output 1:
D
```

For example:

Input	Result

Answer: (penalty regime: O %)

```
x—int (input
) if      .
print if x==l
: print
```

	Input	Expected	Got	
✓	0	C	C	✓
✓	1	D	D	✓

Passed all tests! ✓

Mavks for this submission: I.CWI.OO.

Question 10

Mark of 1000

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 1000 outparts.

Sample Input:

10

20

Sample Output

The total weight Of all these Widgets and gizmos is 2990 grams.

Answer: (penalty regime: 0 %)

```
x=int(input())
y=int(input())
w=x*75
g=y*112
z=w+g
print("The total weight of all these widgets and gizmos is",z,"grams.")
```

	Input	Expected	
	10 20	The total "eight Of all these and gizmos is 2990	The total weight Of all these Widgets and gizmos is

Passed all tests!

Marks for this»bmission: 1000/10.00.

Questan

Correct
Mark 1.00 out of 1.00

V Flag question

What is the output of the following code.

```
a="REC"
if a in ("rec"):
    print(a)
print(a)
```

a.
false
REC

REC

c.
REC
REC

d.
No output

is

answer is:

REC

Your answer correct.

The correct
REC

is answer is:

Queste2

Correct

Mark 1.00 out of 1.00

Flag question

Correct syntax of writing 'simple if' statement is

a.

if condition
statements

b.

if condition...
statements

c.

if (condition)
statements

if condition :
statements

Your answer correct.

is answer is:

The correct
if condition
:
statements

is answer is:

```
if(x=-1):
    print("present")
else:
    print("absent")
```

Questzn 3
Incorrect

Mark 0.00 out of 1.00

Flag question

a. present

b. Runtime Error

c. absent d. compilation error X

Your answer incorrect.

The correct present

is answer is:

Questan4
Correct

Mark 1.00 out of 1.00

Flag question

Can we write if/else into one line in python?

a. No

b. Yes ✓

Your answer is correct.

The correct answer is:
Yes

Queste5
Incorrect
Mark 0.00 out of 1.00
V Flag question

Which of the following is true about the code below?

```
if (x > 2) :
    x = x * 2;
if (x > 4) :
print (x)
```

a. if x is lesser then O,x will be 0 after this code executes

b. if x is greater than 2, x will equal 0 after this code executes

c. x will always equal 0 after this code executes for any value of x d.if x is greater than 2, the value in x will be doubled after this code executes X

Your answer is incorrect.

The correct answer is:
if x is greater than 2, x will equal 0 after this code executes

Question 6
Correct

Mark 1.00 out of 1.00

V Flag question

What is the output of the given below program?

```
if 1 + 3 == 7:
    print("Hello")
else:
    print("REC")
```

a. He110

b. Compiled Successfully, No Output.

c. REC V

Your answer is correct.

The correct answer is:
REC

Queste7

Correct

Mark 1.00 out of 1.00

V Flag question

That is the output of the following snippet[0]

```
s
l
-
"
1
1
T
'
#
R
e
m
e
m
b
e
r
t
h
e
r
e
i
s
a
s
p
a
c
e
a
f
t
e
r
T
i
n
1
1
T
s
2
=
"
P
u
n
j
a
b
"
s1 = s1 * 2
s
2
=
"
R
o
p
a
r
"
p
r
i
n
t
(
s
l
,
s
2
)
```

a. 11T Ropar

b. 11T 11T Punjab

c. 11T Punjab

d. 11T 11T Ropar V

Your answer is correct.

The correct answer is:

11T 11T Ropar

Queste8

Correct

Mark 1.00 out of 1.00

V Flag question

I

l

h

a

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d

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u

c

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o

f

t

w

o

n

correct answer is:

u

m

b

e

r

s

b. Finds the sum of two numbers

c. Finds the quotient on dividing two numbers

d. Finds the remainder on dividing two numbers V

Your answer is correct.

The correct answer is:

Finds the remainder on dividing two numbers

That is the output vien the following sequence of instructions is carried out in the console?

```
a = 1;a = a + 1;a = a + 2;a = a + 3;print(a)
```

a. 4

b. 6

c. 5

d. 7 ✓

QuestZn 9
Correct

Mark 1.00 out of 1.00

Flag question

Your answer is correct.

The
7

correct answer is:

lvi'hat is the value of x at the end of the following sequence of instructions?

x = 10

```
x = x * 3
x = x + 5
```

Question 10
Correct

Mark 1.00 out of 1.00

Flag question

a. 35 V

b. 30

c. 15

d. 45

Your answer is correct.

The answer is:
35

correct

Questin 1 1 Correct

Mark 1.00 out of 1.00

V Flag question

With what extension are the python files saved?

a. •p

b. .pyn

c. .python

d. .py

Your answer is correct.

The

.py

correct answer is:

of

Jestion

Given the nested if-else below, what will be the value x when the code executed successfully

out of

```
if a > 0:
    if b < 0:
        x = x + 5
    elif a > 5:
        x = x + 4
    else:
        x = x + 3
else :
    x = x + 2
print (x)
```

a. 3 ✓

4

c.

Your answer is correct.

The correct answer is.

3

correct answer is:

Queste 13
Correct
Mark 1.00 out of 1.00
V Flag question

What is the output of the given below program?

```
if 1 + 3 == 7:
    print("Hello")
else:
    print("Know Program")
```

a. Hello

b. Compiled Successfully, No Output.

c. Know Program ✔

d. Error

Your answer is correct.

answer is:

The correct
Know Program

answer is:

___ is an empty statement in Python.

a. Jump

b. pass V

c. Empty

d. None

Questzn 14
Correct

Mark 1.00 out of 1.00

Flag question

Your answer is correct. The correct answer is:

pass

To write else statement in if-elif ladder is mandatory?

a. True

b. False V

QuestZn 15
Correct

Mark 1.00 out of 1.00

Flag question

Your answer is correct.

The correct

False

answer is:

Queste
Correct
Mark 1.00 out of 1.00
V Flag question

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 %)

```
ear= int(input()) if
(year%400==0 and year%4==0) or year%100!=0:
print(f"{year} is a leap year. ") else:
    print(f"{year} is not a leap year. ")
```

	Input	Expected	Got	
	19øø	1900 is not a leap year.	19øø is not a leap year.	
	2øøø	2øøø is a leap year.	2øøø is a leap year.	
	21øø	210 is not a leap year.	21øø is not a leap year.	
	2ø2ø	2020 is a leap year.	2Ø2ø is a leap year.	

Passed all tests! V

Marks for this submission: 1.00/1.00.

Questdn 2
Correct

Mark 1.00 out of 1.00

V Flag question

Write a program to find the eligibility of admission for a professional course based on the following criteria:

Marks in Maths >= 65

Marks in Physics 55

M
a
r
k
s
i
n
C
h
e
m
i
s
t
r
y

5
0
O
r

Total in all three subjects - 180

Sample Test Cases

Test

Case 1

Input

70

60

80

Output The candidate is eligible

Test

Case 2

Input

50

80

80

Output The candidate is eligible

Test

Case 3

Input

50

60

40

Output

The candidate is not eligible

For example:

Input	Result
70 60	The candidate is eligible

Answer: (penalty regime: 0 %)

```
1       Fub_l = int(input())
2       sub 2 = int(input())
3       sub_3 = int(input())
4       total = sub 1 + sub 2 + sub 3
5       . if (sub_1>=6S and sub          and sub_3>=50) or total>=180:6          print("The candidate is eligible")
7   else:
8   print("The candidate is not eligible")
```

	Input	Expected	Got	
	7ø 80	The candidate is eligible	The candidate is eligible	
	5ø	The candidate is eligible	The candidate is eligible	
	5ø	The candidate is not eligible	The candidate is not eligible	
	2ø 25	The candidate is not eligible	The candidate is not eligible	

Passed all tests! V

Correct

Question3
Correct

Mark 1.00 out of 1.00

V Flag question

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

Sample Input 1

Sample Output 1

It's a vowel.

Sample Input 2

Y

Sample Output 2

Sometimes it's a vowel.„ Sometimes it's a consonant.

Sample Input3

c

Sample Output 3

It's a consonant.

For example:

Input	Result
Y	Sometimes it's a vowel... Sometimes it's a consonant.
	It's a consonant.

Marks for this submission: 1.00/1.00.

```
alp= input()
vowel=['a','e','i','o','u']

vowel 1 for i in vowel:

    if i==alp:
    print("It's a vowel. ")
    else:
        pass

if alp==vowel_l:
    print("Sometimes it's a vowel. . .
else:
    pass

if •a' !=alp and 'e' !=alp and • i'          Sometimes it's a consonant. ")
print("It's a consonant. ") else:
    pass

                                             and •o' !=alp and 'u' ! -alp and alp! -vowel 1:
```

	Input	Expected	Got	
	i	It's a vowel.	It •s a vowel.	
		Sometimes it's a vowel.. . Sometimes s a consonant.	Sometimes it •s a vowel. Sometimes it's a consonant.	
	c	It's a consonant.	It's a consonant.	

	e	It ' s a vowel.	It's a vowel .	
		' It s a consonant.	s a consonant .	

Passed all tests! v'

Marks for this submission: 1.00/1.00.

Queste4
Correct
Mark 1.00 out of 1.00
Flag question

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.

Notel - 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
197	9
5	-1

Answer: (penalty regime: 0 %)

```
1  um = abs(int(input()))
2  num 1 = num%lee
3  num2 = str(num_l) if num<le:
5      print(-l)
   else :
7      print(int(num2[0]))
```

Marks for this submission: 1.00/1.00.

	Input	Expected	Got	
V	197	9	9	
V	-197	9	9	
	5	-1		
	123456	5	5	
	8	-1		

Passed all tests! V

Correct

Queste 5

Correct

Mark I .00 out of 1.00

V Flag question

The length of a month varies from 28 to 31 days. In this exercise you will create a program that reads the name of a month from the user as a string. Then your program should display the number of days in that month. Display "28 or 29 days" for February so that leap years are addressed.

Sample Input 1

February

Sample Output 1

Februa ry has 28 or 29 days in it.

Sample Input 2

March

Sample Output 2

March has 31 days in it.

S a m p l e I n p u t 3

A pril

Sample Output 3

April has 30 days in it.

For example:

Input	Result
February	February has 28 or 29 days in it.

Marks for this submission: 1.00/1.00.

```
mth =str(input())

mth 31 = ['January' , 'March' , 'May' , 'July' , 'August' , 'october' , 'December' ]
mth_3e = ['April ' , ' June' , 'September' , 'November' ] if mth in mth 31:
    print(f"{mth} has 31 days in it." ) elif
mth in mth 30:
    print(f"{mth} has 30 days in it. ") else:
    print("February has 28 or 29 days in it." )
```

	Input	Expected	Got	
	February	February has 28 or 29 days in it.	February has 28 or 29 days in it.	
	March	March has 31 days in it.	march has 31 days in it.	
	April	April has 30 days in it.	April has 30 days in it.	
	May	May has 31 days in it.	May has 31 days in it.	

Passed all tests! V

Correct

QuestZn 6
Correct

Mark 1.00 out of 1.00

Flag question

Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third.
For example, 3, 5 and 4 form a Pythagorean triple, since 3*3 + 4*4 = 25 = 5*5

You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters.

Sample Input

3

5

4

S

a

m

p

l

e

O

u

t

p

u

t

y

es

Sample Test Cases

Test Case 1

Input

3

5

4

Output

yes

Test Case 2

Input

5

8

2

Output

no

Marks for this submission: 1.00/1.00.

```
a= int (input())
b=int(input ( ) ) c=
int(input()) if a>b
and a>c: hyp=a
al=b a2=c el if bya
and b>c: hyp=b

      _
    a2=c else:
    hyp=c

      _
    a2=b

sum1=(a1*a1)+(a2*a2)
hypl=hyp*hyp    if
suml==hypl: print(
•yes • ) else:
    print( ' no' )
,
•
```

Answer: wena11Y regime: u 70)

	Input	Expected	Got	
	3 5 4	yes	yes	

	5 8 2	no		

Passed all tests! ✅

Queste7
Correct
Mark 1.00 out of 1.00
Flag question

IN / OUT

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

Input Format:

Input consists of 2 integers.

The first integer corresponds to the number of problems given and the second integer corresponds to the number of problems solved.

Output Format:

Output consists of the string "IN" or "OUT".

Sample Input and Output:

Input

8

3

Output

OUT

For example:

Input	Result
8 3	OUT

Answer: (penalty regime: 0 %)

```
prob=int(input ( ) )
comp=int(input())
entry=prob/2     if
comp>=entry:
print ("IN" ) print
("OUT")
```

	Input	Expected	Got	
	31			

Passed all tests! V

Correct

Marks for this submission: 1.00/1.00.

Queste8
Correct
Mark I .00 out of 1.00
Flag question

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

40

80

Sample Output 2 That's a isosceles triangle

Sample Input 3

50

60

70

Sample Output 3

That's a scalene triangle

For example:

Input	Result
	That's a equilateral triangle
	That's a isosceles triangle

Answer: (penalty regime: 0 %)

```
a=int(input())
b=int(input()) 3
c=int(input()) if a==b==c:
    print("That's a equilateral
triangle") el if a==b!=c:
print ("That's a isosceles triangle")
else:
    print("That's a scalene triangle ")
```

	Input	Expected	Got	
	60 6ø 6ø	That • s a equilateral triangle	That's a equilateral triangle	
	40 8ø	That • s a isosceles triangle	That's a isosceles triangle	
	5ø 60 7ø	That ' s a scalene triangle	That's a scalene triangle	
	5ø 5ø 8ø	That • s a isosceles triangle	That's a isosceles triangle	
	lø 10 lø	That • s a equilateral triangle	That's a equilateral triangle	

Passed all tests! v

Correct

Marks for this submission: 1.00/1.00.

Quest—n9
Correct
Mark 1.00 out of 1.00
Flag question

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:

IJnit	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.oo

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
løø.øø	120 .ØØ
	1035. oø

```
a=float(input())
b=0
if a<199 and a>=loe:
b=1.2e el if a<2ee and
a>=400:b=l.se el if
a<6ee and a>=400:
b=1.8e

el if a __b=2.
    ee

  se:
    tot-leo. ee
    print(tot)
tot=a*b
sur=(15/100)*tot
if tot>4ee:
    totl=(a*b)+s
ur print (totl) el if
tot>10é:
    print(tot)
```

	Input	Expected	Got	
V	50	løø.øø	løø.ø	
	.ø ø	120.øø	12ø.ø	
V	500	1035.øø	1035. e	

	700	161ø.øø	1610.0	

Passed all tests! V

Correct

Marks for this submission: 1.00/1.00.

Queste10

Correct

Mark 1.00 out of 1.00

Flag question

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

004 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.

Answer: (penalty regime: 0 %)

```
      = int(input())



if (year - 2000) % 12 _ e: sign '
    Dragon '
el if (year _ 2eee) X 12 _ _sign =
    'Snake •

elif (year _ 2eee) x 12 _sign =
    'Horse •

el if (year _ 2eee) x 12 _sign = '
    Sheep '
elif (year _ 2eee) x 12 _ sign
    'Monkey '                       1:
elif (year _ 2eee) x 12 = _sign =
    • Rooster.                      2:
elif (year _ 2eee) x 12 = _sign =
    • Dog'                          3:

el if (year _ 2eee) x 12 _sign =
    'Pig'                           4:

elif (year - 2eee) % 12 _sign = '5:
    Rat '
el if (year - 200) % 12 _
    sign 'Ox'                       6:

el if (year _ 2eee) X 12 _
    sign 'Tiger'                    7:

else:                               8:
    sign = Hare '
print(f"{year} is the year          9:

                                    10:




                                    of the {sign}.
```

	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 I

Correct

Mark 1.00 out of 1.00

V Flag question

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

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

```
  a    = int (
input  (  )  )
b=False  for  i
in  range  (  1,
a) :
   if  ( i* i = = (
   a +1) ) :
  b    =  True
break if (b ) :
    print ( "Yes "
    )

    print ( "No" )
```

Passed all tests!

Correct

Marks for this submission:

	Input	Expected	Got	
✓	24	Yes	Yes	✓
✓	26	No	No	✓

Passed all tests! ✓

Correct

1.00/1.00.

Question 2
Correct

Mark 1.00 out of 1.00

V Flag question

A Number is said to be Disarium number when the sum of its digit raised to the power of their respective positions becomes equal to the number itself. Write a program to print number is Disarium or not.

Input Format:

Single Integer Input from stdin.

Output Format:

Yes or No.

Example Input:

175

Output:

Yes

Explanation

I Al + +5A3 = 175

Example Input:

123

Output:

No

For example:

Input	Result
175	Yes
123	No

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

Passed all tests!

Correct

Marks for this submission:

finds

```
a-input ( )
sum = O

for i in a:
   int ( i)
   ** x
 X+ ZI
 s um + = b
sum:  =  int
print ( "Yes
" ) else :
 print (
 "No" )
```

	Input	Expected	Got	
✓	175	Yes	Yes	✓
✓	123	No	No	✓

Passed all tests! ✓

Correct

1.00/1.00.

Question 3
Correct

Mark 1.00 out of 1.00

Flag question

Write a program that whether the given number N is Prime or not.

If the number is prime, the program should return 2 else it must return 1.

Assumption: 2 <= N <=5000, where N is the given number.

Examplel : if the given number N is 7, the method must return 2

Example2: if the given number N is 10, the method must return 1

For example:

Input	Result
7	2
10	

Passed all tests!

Correct

Marks for this submission: [ ].00/[ ].00.

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

```
a-int ( input ( ) )
count = O for i in
range ( I , a +1 )
    if(a%i==0):
        c ount +
= 1 if ( count==2
) print ( 2 )
else :
 print ( 1 )
```

	Input	Expected	Got	
✓	7	2	2	✓
✓	10	1	1	✓

Passed all tests! ✓

Correct

Passed all tests!

Correct

Marks for this submission:

out of 1.00

question

Question 4

Correct

Mark 1.00

V Flag

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 I 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 101 5, the program should return 2 because there are 2 non-repeated digits in this number, 'O', and '5'.

If the given number is 108, the program should return 3 because there are 3 non-repeated digits in this number, '1', and '8'.

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

For example:

Input	Result
292	1
1015	2
108	3
22	

Answer: (penalty regime: O %)

Ace editor not ready. Perhaps reload page? Falling back to raw text area.

```
a-input ( )

for i in a:
 count  =  O
 for  j  in
 a:

  if(i==j):
   count + =
   1       if
   (count
print
b+=i
(len(a)-len(b))
```

Passed all tests!

Correct

Marks for this submission: 1 .00.

out of 1.00

question

	Input	Expected	Got	
✓	292	1	1	✓
✓	1015	2	2	✓
✓	108	3	3	✓
✓	22	0	0	✓

Passed all tests! ✓

Correct

1.00/

Question 5
Correct

Mark 1.00 out of 1.00

V Flag question

Given a number N, the next perfect square greater than N.

Input Format:

Integer input from stdin.

Output Format:

Perfect square greater than N.

Example Input:

10

Output:

16

Answer: (penalty regime: O %)

Ace editor not ready. Perhaps reload page? Falling back to raw text area.

Input

Passed all tests! V

Correct

Marks for this submission: | .00/ | .00.

finds

```
a-int ( input ( ) )
for i in range ( 1 ,
a) :
    b=i*i
    if(b>=a):
        print ( b )
        break
```

	Input	Expected	Got	
✓	10	16	16	✓

Passed all tests! ✓

Correct

Question 6
Correct

Mark 1.00

V Flag

Given a positive integer N, check whether it can be represented as a product of single digit numbers.

Input Format:

Single Integer input.

Output Format:

Output displays Yes if condition satisfies else prints No.

Example Input:

14

Output:

Yes

Example Input:

V

Correct

Marks for this submission: | .00/ | .00.

out of 1.00

question

13

Output:

No

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page? Falling back to raw text area.

```
a=int ( input ( ) )
x=False for i in range
( 2 , 10 ) :
  for j in range ( I
  , 10 ) :
    if(i*j==a):
      x=True
break if ( x
) :
 print ( "Yes " )
else :
 print ( "No" )
```

	Input	Expected	Got	
✓	14	Yes	Yes	✓
✓	13	No	No	✓

Passed all tests! ✓

Correct

Input

Passed all tests! V

Correct

Marks for this submission: .00/ .00.

finds

Question 7
Correct

Mark 1.00 out of 1.00

Flag question

Write a program to the sum of the series 1 +11 + 111 + 1111 + . . . + n terms (n will be given as input from the user and sum will be the output)

Sample Test Cases

Test Case 1

Input

4

Output

1234

Test Case 2

Input

6

Output

123456

Answer: (penalty regime: O %)

Ace editor not ready. Perhaps reload page? Falling back to raw text area.

Input

	Input	Expected	Got	
✓	4	1234	1234	✓
✓	6	123456	123456	✓

Passed all tests! ✓

Correct

Marks for this submission: ■ .00/ ■ .00.

out of 1.00

question

```
a-int ( input ( ) )

s um = O for i in

range(1,a+1):

 sum= sum+ int ( C )
print ( sum)
```

Question 8

Correct

Mark 1.00

Flag

Input

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

In mathematics, the factorial of a non-negative integer n, denoted by n!, is the product of all positive integers less than or equal to n. For example,

5! = 5 x 4 x 3 x 2 x 1 = 120

4! =4x 3x2x 1 = 24

9! = 9 x 8 x 7 x 6 x 5 x 4 x 3 x 2 x 1 = 362880

Write a program to find the factorial of a given number.

The given number will be passed to the program as an input of type int.

The program is expected to calculate the factorial of the given number and return it as an int type.

Assumptions for this program:

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

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

For example:

Input	Result
5	120
4	24
9	362880

Answer: (penalty regime: O %)

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

```
num: int ( input ( ) )

for i in range ( 1, num+1) :

print (b )
```

Question 9
Correct

Mark I .00 out of 1.00
Flag question

Write a program to find the count of unique digits in a given number N. The number will be passed to the program as an input of type int. Assumption: The input number will be a positive integer number >= 1 and <= 25000.

	Input	Expected	Got	
✓	5	120	120	✓
✓	4	24	24	✓
✓	9	362880	362880	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

out of 1.00

question

For e.g.

If the given number is 292, the program should return 2 because there are only 2 unique digits '2' and '9' in this number

If the given number is 101 5, the program should return 3 because there are 3 unique digits in this number, '1', '0', and '5'.

For example:

Input	Result
292	2
1015	3

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page? Falling back to raw text area.

```
a-input   (
)  b=  "   "
for i in a:
  if ( i not in
  b ) :

print ( len(b )
)
```

	Input	Expected	Got	
✓	292	2	2	✓
✓	1015	3	3	✓
✓	123	3	3	✓

Passed all tests! ✓

Correct

Correct

Marks for this submission: 1.00/1.00.

Question I O
Correct Mark 1.00 out
of 1.00
Flag question

Write a program to return the nth number in the fibonacci series.

The value of N will be passed to the program as input.

NOTE: Fibonacci series looks like o, 1, 1, 2,

3, 5, 8, 13, 21, 34, 55, and so on.

i.e. Fibonacci series starts with O and 1, and continues generating the next number as the sum of the previous two numbers.

- first Fibonacci number is O,
- second Fibonacci number is 1,
- third Fibonacci number is 1,
- fourth Fibonacci number is 2,
- fifth Fibonacci number is 3,
- sixth Fibonacci number is 5,
- seventh Fibonacci number is 8, and so on.

For example:

Input	Result
1	
4	2
7	8

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

```
n=int(inp
a=0
b=1
if(n==1):input ( ) )
```

P

	Input	Expected	Got	
✓	1	0	0	✓
✓	4	2	2	✓
✓	7	8	8	✓

Co Passed all tests! ✓

Ma

Correct

Question 1

Correct

Mark 1.00 out ot 1.00

Flag question

```
print ( 0 )

print ( 1 )

 for i in range (
 n -2 ) :
   x=a+b


 print ( x )
```

started on Thursday, lg April 2024, 11:24 AM

State Finished

Completed on Thursday, 18 April 2024, 11:38 AM

Time taken 14 mins 3 secs

Grade 14.00 out of 15,00 (93.33%)

```
Ehile i e :
 p r int (i )
```

```
i += 1
if i == 2:
        continue
else:
        print(0)
```

a.0

```
1
2
0
```

b. 0 ✓

0
1
2
0

c. 0
0
1
1
0

d. 0
1
1
1
0

Your answer is correct.

The correct answer is:

0
0
1
2
0

Question 2
Correct
Mark 1.00 out of 1.00
Flag question

```
How many times it will print
for i in range(102):
```
the Statement?

print (i)

Answer. 102

The correct answer is: 102

Question 3
Correct
Mark 1.00 out of 1.00
Flag question

For loop in python is

a. Entry Control Loop ✓ b. Exit Control Loop

c. Multi Control Loop

d. Simple Loop

Your answer is correct

The correct answer is:
Entry Control Loop

Incorrect

Mark 0.00 out of 1.00

Flag question

```
num =0
while num < 5:
   num = num + 1
      print('num = ', num)
```

Predict the Output Of the following?

a.prints no output b.

Runtime error

c. Runs correctly X

d. Indentation Error

Your answer is incorrect.

The correct answer is:

Indentation Error

```
Predict the output of the followi
i = 2
while i < 4:
```

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

print(i)

a. 234

b. 34

c.23v•

d 1 234

Your answer correct. The

correct answer is:

rM,bers = (8, 9, 11, 20)

```
a = 1
for num in numbe
     a = a * num
print(a)
```

nv mbers:

of

predict the output of the p

Answer: 15840

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

```
True= False
while(True):
      print(True)
```

The correct answer 15840

break

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

What is the Ntput of the following?

a. Syntax Error v

b.False

c. **True**

d.

No output

Your answer is correct.

The correct answer is:

Syntax Error

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

The range() function by defaults increments by

Answer: 1

The correct answer is: 1

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

A for loop can iterate over a

a. float

J b. list V

c. bool

d. integer

Your answer is correct.

The correct answer is:

list

Question

Correct

Mark 1.03 out of 10.00

or nag question

while i e :print (i)

```
i += 1
if i == 2:
        continue
```

else: print (O)

What is the output of the fol l wing?

a.
```
0
0
1
1
0
```

b.
```
0
0
2
0
0
```

c. ✓

0

0

d. 0
1
1
1

0

Your answer is correct.

The correct answer is:

0
0
1
2
0

Question
Correct
Mark 1.00
1.00
Flag question

11 Which of the following is a loop in python?

cut of a.For

b. If_Else c. Do-While d,

Break

Your answer is correct

The correct answer is:
For

Question
Correct
Mark 1.00
1.00
Flag question

12 Predictthe output of the programE0 X •n range(a) : out of
if • 3: (x)break
print else:

print("Finally finished'")

print("Finally finished!")

2
3

Finally Finished!

b. Finally Finished!

c. 0
1

2

2
3

Your answer is correct.

The correct answer is:

2

Question Correct Mark 1.00 1.00 Flag question

13

```
True= False
while(True):
        print(True)
        break
```

What is the output of the following?

out ot

a. Syntax Error

b. False

c. True

d. No output

Your answer is correct.

The Correct answer .

Syntax Error

Question 14 Correct Mark 1.00 out 1.00 Flag question

A for loop can terateover a

of a. integer

b. float

c. list V

d. bool

Your answer is correct.

The correct answer is:

list

Question 15

Mark out of

Flag question

```
for x in [0, 1, 2]:
    pas S
```

Predict the Output Of the program?

a. Prints 0,1,2n

b. Runtime Error c. prints nothing V

d.Compilation Error

Your answer is correct.

The correct answer is:

Prints nothing

What is the output of the following code?

```
strl = "vijay" for i in range(len(str1)):
print(i, end=U")
```

a. None of the above

b. Vijay

c. No output

d. 01234

Complete

Flag question

Question 2

What is the output of the following?

Com plete

Flag question while i < 3;

print(i)

print (e)

a. Error

b. 01 20

c. 01 2

d. 01 230

Ques€cn3

What is the output of the following code?

Complete

```
my_string • • arvijayakumar'
for i in range(my_string)
  : print(i)
```

Flag question

4

a. 0 1 2 3 12

b. arvjayakumar

c. None

d. Error

Quest;'n Complete

what is the output of the following code?

```
line = "What will have so will" L line.
split('a')
```

Flag question

```
for i in L:
  print(i, end—' • )
```

a. ('Wh', 't will h', 've sowl. | |
]

b. Wh t will h ve so will

c. What will have so will

d. ['What', •will', have', 'so', 'will']

Flag question

Quest. 5
Complete
Flag question

What arithmetic operators cannot be used with strings in Python?

c. All of the mentioned

d. -

Ques€cn6
Complete
Flag question

What is the output of the following Code?

```
str1="6/4"
print( "strl")
```

strl

Answer:

Ques€cn7
Complete
V Flag question

What is the output of the following Code?

```
print(ordCD'))
```

Answer: 68

Question 8
Complete
Flag question

```
What is

Line1 =
Line2 =
```

What is the output of the following code.

"And Then There were None"

"Famous In Love"

Line3 = "Famous Were The Kol And Klaus"

Line4 = Linel + Line2 + Line3

("And"in Line4)

a. False

b. True 2

c. False 2

d.True

Complete

What is the index value of "Learning" in Quest•n9 ?

Flag question

a. 3

b. 5

C. 6

d. 7

Corn plete

What is the output of the following code?

```
strl = "vjay"
for i in range(len(strl),6):
    print(i)
```

Flag question

Question 10

a. 5

c. None of the above

d. Vijay

Complete

What will be the output of the following code?

```
print(a*b)
```

Flag question

Question 11

ababababab

Answer:

Question 12

What is the output of "hello"+l +2+3 ?

Complete

Flag question

a. he1106

b. heli0123

c. Error

d. hello

Quest;on 13
Complete

V Flag question

What is the output of the following Code?

print(chr(70))

Answer. F

What is the output of the following code?

str1= ' vijayakumar str2=• .

str3z • -

```
print(str1[-1:])
```

a. ramukayajiv

b. 'r'

14
Complete

V Flag question

c. vijayakuma

d. None of the above

Queste 15
Complete

V Flag question

Python considered the character enclosed -in triple quotes as String.

Select one:

True

False

Question

Correct

Mark 1.00 out of

Flag question

Question

Correct

Mark 1.00 out of 1.00

V Flag question

Reverse a string without affecting special characters

Given a string S, containing special characters and all the alphabets, reverse the string without affecting the positions of the special characters. Input:

Output:

Explanation: As we ignore and As we ignore and then reverse, so answer is "B&A".

For example:

Input	Result

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

```
string—input ( )
string_list=list       (
string)          start=0
end=len(string _list)-1
while start<end:
    if  not  string_list  [
start] . isalpha( ) :
        start+=l el if not
string_list    [end]    .
isalpha( ) :
        end—=l
    else :

string list [start] , string
list [ end]=string list [end]
,  string  Ii  st  [  start  ]
start+=l    end—=l    reversed
string=' ' . join (string list)
print ( reversed_str ing )
```

Passed all tests! V

Correct

Marks for this submission:

	Input	Expected	Got	
✓	A&B	B&A	B&A	✓

Passed all tests! ✓

Correct

2

1.00

Two string values Sl, S2 are passed as the input. The program must print first N characters present in Sl which are also present in S2.

Input Format:

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

Output Format:

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

Boundary Conditions:

2 N 10
2 Length of Sl, S2
1000 Example
Input/Output 1:
Input:
abcbde
cdefghbb
3 Output:
bcd

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

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

Passed all tests! V

Correct

Marks for this submission: 1.00/1.00.

Question

Correct

Mark 1.00 out of

Flag question

```
sl=input(   )   .
strip(          )
s2=input(   )   .
strip(  )  n=int(
input(  )  )  com
chars=  for  char
in s 1:
    if char in s2 and char not
in com chars :
        com  chars+=char
    if len ( com_chars )
    :
        break
print.com chars)
```

	Input	Expected	Got	
	abcbde cdefghbb 3	bcd	bcd	

1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1.00

V Flag question

Write a program that takes as input a string (sentence), and returns its second word in uppercase.

For example:

If input is "Wipro Technologies Bangalore" the function should return "TECHNOLOGIES"

If input is "Hello World" the function should return "WORLD" If input is "Hello" the program should return "LESS"

NOTE 1: If input is a sentence with less than 2 words, the program should return the word "LESS".

NOTE 2: The result should have no leading or trailing spaces.

For example:

Input	Result
Wipro Technologies Bangalore	TECHNOLO
Hello World	WORLD

Passed all tests! V

Correct

Marks for this submission:

Hello	LESS

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
sentence=input(   )   .
strip( ) words=sentence
.   split   (   )   if
len(words )>=2:

second_word=words [ 1 ] .
upper ( )

    second word= "LESS "
print ( second_word )
```

	Input
V	Wipro Technologies Bangalore
	Hello World
	Hello

Passed all tests! V

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Flag question

Assume that the given string has enough memory.

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

Sample Input 1

a2b4c6

Sample Output 1

aabbbbccccc

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page? Falling back to raw text area.

```
input_string=input().strip()
result_string= ""
i=0
while i<len(input_string):
    char=input_string[i]
    if char.isalpha():
        count=0
        j=i+1
        while
j<len(input_string) and
input string[j].isdigit():
            count=count*10 +
int(input_string[j])
            j+=1

result_string+=char*count
        i=j
    else:
```

	Input	Expected	G
✓	a2b4c6	aabbbbccccc	aa
✓	a12b3d4	aaaaaaaaaaabbbdddd	aa

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 5

Correct

Mark 1.00 out of 1.00

V Flag question

In this exercise, you will create a program that reads words from the user until the user enters a blank line. After the user enters a blank line your program should display each word entered by the user exactly once. The words should be displayed in the same order that they were first entered. For example, if the user enters: first

second

first

third

second then your program should

display:

first

second

third

Answer: (penalty regime: O %)

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

```
a=input( )
b=input( )
c=input( )
d=input( )
e=input( )
print ( a) if b!=a:
        print (b) if c!=a and
c!=b: print (c ) if d!=a and
d!=c: print (d) if e!=a and
e!=b:
        print (e)
```

Expected	Go
	Got

Passed all tests! V

Correct

Marks for this submission: 1.00/1.00.

Question

Correct

Mark 1.00 out of

Flag question

first second third	first second third
rec cse it	rec cse it

Passed all tests! V

Correct

Marks for this submission:

Question **6**

Correct

Mark 1.00 out of 1.00

Flag question

Write a program to check if two strings are balanced. For example, strings s1 and s2 are balanced if all the characters in the s1 are present in s2. The character's position doesn't matter. If balanced display as "true" ,otherwise "false".

For example:

Input	Result
Yn PYnative	True

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page? Falling back to raw text area.

```
s1=input()
s2=input()
"""set() converts string into
set, duplicate ll be removed
and lette is printed only
once"""
set_s1=set(s1)
set_s2=set(s2)
balanced=True
for char in set_s1:
    if char not in set_s2:
        balanced=False
        break
if balanced:
    print("True")
else:
    print("False")
```

	Input	Expected	Got	
✓	Yn PYnative	True	True	✓
✓	Ynf PYnative	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

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 %)

Ace editor not ready. Perhaps reload page? Falling back to raw text area.

```
s1=input().strip()
s2=input().strip()
result=''.join(char for char in
s1 if char not in s2)
print(result)
```

	Input	Expected	Got	
✓	experience enc	xpri	xpri	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 8
Correct
Mark 1.00 out of 1.00

Flag question

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: I
Length of S <:: 100
Example Input/Output 1:

Input:

abcd@gmail.co
m Output: com
gmail abcd

For example:

Input	Rest
a rv ij ayakuma r@raj alakshmi. edu. in	edu. raja arvi

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

```
a, str , input( ) . split( " @
" ) ) b,c=map( str,b. split( '
print (c) print (b) print ( a)
```

	Input
V	abcd@gmail. com
V	arvij ayakuma r@raj alakshmi. edu. i
Passed all tests! V	

String should contain only the words are not

Correct

Marks for this submission: 1.00/1.00.

Sample Input 1

Malayalam is my mother tongue

Sample Output 1

is my mother tongue

Answer: (penalty regime: 0 %)

Correct

Marks for this submission: 1.00/1.00.

Question **9**

Correct

Mark 1.00 out of 1.00

Flag question

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 %)

Ace editor not ready. Perhaps reload page? Falling back to raw text area.

```
a=input()
d=a.lower()
words=d.split()
b=""
for word in words:
    if word!=word[::-1]:
        b+=word +" "
print(b)
```

	Input
✓	Malayalam is my mother tongue

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

page? Falling back to raw text area.

Passed all tests! V

Correct

Marks for this submission: 1.00/1.00.

Question 10

Correct

Mark 1.00 out of 1.00

V Flag question

Write a python program to count all letters, digits, and special symbols respectively from a given string

For example:

Input	Result
rec@123	3 3 1

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
string=input   (   )
letters—O  digits=0
symbols=O  for  char
in string:
    if char. isalpha( )
    :
       letters+=l el if
    char.isdigit( ) :
        digits+=l

        symbols+=l
print ( letters )
print ( digits )
print ( symbols )
```

	Input	Expected	Got
V	rec@123	3 3 1	3 3 1

Correct

Marks for this submission:

the output

	P@#yn26at^&i5ve	8 3 4	Got 3 3 1 8 3 4 3 2 2
V	abc@12&	3 2 2	3 2 2

Passed all tests! V

1.00/1.00.

Question 1

T=(1,2,3,4,5.5)

Write of the following:

Incorrect

Mark 0.00 out of 1.00

Flag question

```
L = list(T)
print(L*2)
```

Answer: [1,2,3,4,5.5,1,2,3,4,5.5]

The correct answer is: [1, 2, 3, 4, 5.5, 1, 2, 3, 4, 5.5]

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

```
1. myLiSE [1 5 5,5, 5,
   2.          •
   myList[O] .
   indexOfXax - 04. fori in
   range(1,
   len(.yList)) :5.
      if myList[iJ> max:
           max = myList[i]
           index Of"ax • i
   8. print ( indexOfMax)
```

Answer.

1

The correct answer is: 1

correct.

answer is:

the output

Question 3
Correct
Mark 1.00 out o 1.00
Flag question

```
L=[1,5,9]
print(sum(L),max(L),min(L))
```

Answer: 15 9 1

The correct answer is: 15 9 1

Question 4
Correct
Mark 1.00 out o 1.00
Flag question

What is the output Of the following code?

```
list1 = ["hi", "we",
for i in list1:
    print(list1[i])
```

"are", "the"elements", "in", "a", "List"]

a. hi hi hi hi hi hi hi hi

b. hi

C. hi we are the elements

in a list d. error

Your answer

The correct

Question
Correct
Mark 1.00 out o 1.00
Flag question

5 What will be

```
m = list(range(7,10))
print(m)
```

b. list([7, 8, 9])

a.[7, 8.9,

101

c.789

d. [7, 8, 9] ✓

Your answer is correct

The correct answer is:

(7. 8, 91

Question 6
Correct
Mark 1.00 out of 1.00
Flag question

Find the output?

```
listl = [1, 2,
3, 4,1,2,    listl
.sort0       listl
_pop()       listl
reverse()    print(listl)
```

a. [3, 2, 1, 3, 2, 11

after the following statements?

b. [4, 3, 3, 2, 2, 1, 1]

c. [3, 3, 2, 2, 1, 1] ✓

d. [4, 3, 3, 2, 2, 1]

Your answer is correct.

The correct answer is:

[3, 3, 2, 2, 1, 1]

correct.

answer is:

the output

Question 7
Incorrect
Mark 0.00 out of 1.00
Flag question

list1 =[1, 31

2. >>>list2 =listl

4. >>>print(list2) 3. »»listltel - 4

14,31

Answer

The correct answer is: [4, 3)

Question 8
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output after the following statements? m = ['July', 'September', 'December') n m[01 + m[2] print'

a. SeptemberDecember

b. July

c. JulySeptember d. lulyDecember V

Your answer is

The correct
JulyDecember

Question 9
Correct
Mark 1.00 out of 1.00
Flag question

Find list3-tl listl ='REC_CSE_ECE' list2= listl.splitC_') for i in list2:
list3.extend(i)
print(len(list3))

a. 9 ✓

b. 11

d. 12

Your answer is correct.

The correct answer is:

Question 10
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following searches for an element in a list and retums index?

a. find()

b. popo

c.index() ✓

d. search0

Your answer is correct.

The correct answer is:
index()

correct.

answer is:

the output

Question 1
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output after the following statements?

m = [45, 51, 671 out of n

a. 67 ✓

print'

b. 45

c. 51

d. (45, 51, 671

Your answer is correct.
The correct answer is:

Question 12
Correct
Mark 1.00 out of 1.00
Flag question

What is the output when we execute list("wel

a. c)['emoclew']

b. a) ['w', 'e', 'l', 'c', 'o', 'm', 'e'] ✓

c. b) ['welcome')

Your answer is

The correct

a) ['w', 'e', 'l', 'c', 'o', 'm', 'e']

correct.

answer is:

the output

Question
Correct
Mark 1.00 1.00
Flag question

13 Find

```
= [1, 2, 3, 4,1,2,3,1]
= list1
```

listl =

out of list2 listl .

clear()

print(list2)

a. [1, 2, 3, 4, 1, 2, 3, 1]

b. [1, 1, 2, 2, 3, 3, 4,]

c. [ ] ✓

d. [1, 2, 3, 4]

Your answer is correct.

The correct answer is:

Cues: on 14
Correct
Mark 1.00 out of 1.00
Flag question

Find the output? listl - 11, 2, 3, 4,1231 print(listl .pop0)

100

. d. 2

a. 3 ✓

b. [ ]

c. 1

Your answer is correct.

The correct answer is:

Question 15
Incorrect
Mark 0.00 out of 1.00
Flag question

Write the output of the following .

02

```
D = [1,2,3]
D1 = D
```

0 D.

append(4)

print(0i)

A nswer: [1,2,3,4]

The correct answer is: [1, 2, 3, 41

Mark 1.00 out of 1.00

V Flag question

rogram 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

C
o
m
p
l
e
t
e
t
h
e
p

7
23
45
23
56
45

Question

Correct

2
3
4
0

Output

23 occurs 3 times
45 occurs 2 times
56 occurs 1 times
40 occurs 1 times

Answer: (penalty regime: 0 %)

reload page? Falling back to raw text area.

```
a int ( input ( ) )

for i in range ( 0 , a ) :
    c = int ( input ( ) )
    d append ( c )

for el in d :
    if el in f :
        f[el]+=1
    else:
        f [el] = 1 for el , count
in f . items ( ) :print ( f " {el}
occurs {count } t imes " )
```

	Input	Expected	Got
✓	7 23 45 23 56 45 23 40	Expected: 23 occurs 3 times 45 occurs 2 times 56 occurs 1 times 40 occurs 1 times Got: 23 occurs 3 times 45 occurs 2 times 56 occurs 1 times 40 occurs 1 times sts! ✓	23 occurs 3 times 45 occurs 2 times 56 occurs times 40 occurs times

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Accepted or not ready. Perhaps

Write a Python program to Zip two given lists of lists.

Input:

m : row size Flag

question n: column size

listl and list 2 . Two lists

Output

Zipped List : List which combined both listl and list2

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Sample test case

Sample input

2
2

3
5
7
2
4
6
8

Sample Output

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

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page? Falling back to raw text area.

```
  int ( input
( ) ) n= int
( input ( ) )
11 = C ]
```

```
for i in range(0,2*(m+n)):
    a -int ( input ( ) )
  11. append ( a )
```

```
a=l1[:m]
b=l1[m:2*n]
c=l1[2*n:3*m]
d=l1[3*n:]
x=(a+c)
y=(b+d)
z=[x,y]
print(z)
```

	Input	Expected	Got
✗	2 2 1 2 3 4 5 6 7 8	[[1, 2, 5, 6], [3, 4, 7, 8]]	[[1, 2,

Passed all tests! ✗

Passed test

Question

Correct

Correct

Marks for this submission: 1.00/1.00.

Question 3
Correct
Mark 1.00 out of

Consider a program to insert an element / item in the sorted array. Complete the logic by filling up required code in editable section. Ccnsider an array of size 10. The eleventh Item is the data is to be Inserted.

Flag question

Sample Test Cases

Input

3
4
5
6
7
8
9
10
1 1
2

Output

ITEM to be inserted:2
After insertion array is:

2
3
4
5
6
7
8
9
10
1 1

Test Case 2

Input

11
22
33
55
66
77
88
99
110
120
44

Output

ITEM to be inserted:44 After insertion array is:
11
22
33
44
55
66
77
99
110
120

Answer: (penalty regime: 0 °/0)

Ace editor not ready Perhaps reload page? Falling back to raw text area.

```
a=[]
for i in range ( 0 , 11 ) :
    b: int ( input ( ) )
    a . append (b )
a. sort ( ) print ( " ITEM to be inserted:[]'
. format (b))print ( "After insertion array is .
']
print(*a,sep='\n')
```

Question

Correct

Mark 1,00 out of

Flag

	Input	Expected	Cot
	3 4 7 8 9 10 1 1 2	ITEM to be inserted:2 After insertion array Is : 4 6 7 8 9 10 11	ITEM to be After inset 2 4 1 1
	1 1 22 33 55 66 77 88 1 10 120 44	ITEM to be inserted:44 After insertion array is : 11 22 33 44 55 88 1 10 120	ITEM to be After inset 1 1 22 33 44 55 77 88 120

Passed all tests! ⊠

Correct

4

Given an array of numbers, find the Index of the smallest array element (the pivot), for which the sums of all elements to the left and to the right are equal The array may not be

1.00 reordered question

Example

arr=[1,2,3,4,6]

the sum of the first three elements, 1+2+3=6. The value of the last element is 6,

Using zero based indexing, arr[3]=4is the pivot between the two subarrays The index of the pivot is 3

Constraints 3sns105

1 s arr[il s 2 x 10^4, where Os icn

It is guaranteed to a solution always exists

The first line contains an integer n, the size of the array arr

Each of the next n lines contains an Integer, arr[il, where O i

Sample Case O Sample

Input O

4

2

3

3

Sample Output O

2

Explanation O

The sum of the first two elements, | +2=3. The value of the last element is 3.

Using zero based indexing, arr[2l=3is the pivot between thetwo subarrays,

The index of the pivot is 2.

Sample Case 1 Sample

Input 1

3

2

Sample Output 1

Explanation 1

The first and last elements are equal to 1.

Using zero based indexing, ig the pivot between the two subarrays

The Index of the pivot is 1,

Question 5

Correct

Mark 1.00 out of

For example:

Input	Result
4 1 2 3 3	2
3 1 2 1	1

Xlswer: (penalty regime: O %)

Ace editor not ready Perhaps reload page? Falling back to raw text area.

```
n=int(input())
l=[]
for i in range ( n
    )   :   b:   int
    (input  ( )  )
    l.    append(b)
for
i in range(0,n):
a=l[:i]
b=l[i+1:]
if(sum(a)==sum(b
      print  ( i)
```

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

Passed all tests! X

Correct

Maiks for this submssion 1 00/100.

Flag question

Output is a merged array without duplicates.

Input Format

NI -no of elements in array 1

Array elements for array 1

N2 -no of elements in array 2

Array elements for array2 Output Format

Display the merged array Sample Input 1

5

1

2

3

6

9

4

2

4

5

10

Sample Output 1

1 2 3 4 5 6 9 10

mswer: (penalty regime: 0 %/0)

Question
Correct
Mark 1,00 out of

Flag

Ace editor not ready Perhaps reload page?
Falling back to raw text area.

```
n: int ( input ( ) )

for i in range ( n ) :
    1.  append  (  int  (
input  (  )  )  )  m:  int  (
input ( ) ) for i in range
(m) : b: int ( input ( ) )
if b not in 1 :

        1.append  (
b  )  1.  sort  (  )
print ( % 1 )
```

	Input	Expected	Got
	2 6 9 4 2 4 10	3 4 5 6 9 10	1 2
	7 4 7 8 10 12 30 35 9 3 4 7 8 11 13 22	4 5 7 8 10 11 12 13 22 30 35	1 3

all

Passed
Correct

Question

Correct

Mark out of

Flag

6

TOO

Gwen an array A of sorted integers and another non negative integer k, find if there exists 2 indices i ancij such that Ali] -All question Input Format

1. First line is number of test cases T Following T lines

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 o if it doesn't,

Example

Input

3

3
5
4

Output

Input

3

3
5
99

Output

For example

Input	Result
1 3 1 3	1

Input

4

1 3 1 3 5 99	0

Alswer: (penalty regime: O

Ace editor not ready Perhaps reload page? Falling back to raw text area

```
t=int(input())
for k in range' t ) :
    n: int (input ( ) )
    l=[]
    for x in ran ge ( n
        ) : b; int ( input ( j )
        I . append ( b )
    k=int(input())
    y=0
    for i in ran ge ( n ) : for j
        in range f n) : if ( (l
        11):y+=1
                break
print ( y )
```

Passed all tests'

Question 8
Correct
Mark out of
Flag

E

Print "True" if list is strictly increasing or decreasing else print "False"

Sample Test Case

Input	Output
7	True
2	
3	
4	
5	
6	

klswer: (penalty regime: 0 %/0)

Ace editor not ready Perhaps reload page? Falling back to raw text area.

```
n: int ( input ( ) )
isi=True for i in range ( 0 , n ) :
    c: int ( input ( ) )
    l. append ( c ) for i in range (
n- l ) :
    if(l[i]>l[i+1]):
        isi=Fa1se break if isi :
    print ( "False " ) else :
    print ( "True " )
```

Write a Python program to check if a given list is strictly increasing or not Moreover, If removing only one element from the list results in a strictly increasing list, we still consider the list true Input n _ Number of elements Listl: List of values

Output

	Input	Expected	Got	
	7 2 3 4 5 6	True	True	

Passed all tests'

4 2	True	True	Passed all tests!

Program to print all the distinct elements in an array Distinct elements are nothing but the unique (non-duplicate)

1.00 elements present in the given array

Input Format. question

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

4

Output:

1234

Example Input:

6

2

23

3

Output

1 23

For example:

Input	Result
2 3 4	1 2 3 4
6	1 2 3

2 2 3 3

klswer: (penalty regime: 0 %/0)

Ace editor not ready Perhaps reload page? Falling back to raw text area.

```
n: int ( input ( ) )
array=[int(input().strip()) for _ in
range(n)]
de-list ( set ( arr ay ) ) de
. sort ( ) print ( " . join

(map(str,de)))
```

Question 10
Correct

Mark out of

Flag

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

Passed all tests'

Question 11

Correct out of

Write a program to print all the locations at which a particular element (taken as input) is found in a list and Mark 1,00 also print the total number of times it occurs in the list. 100 The location starts from I .

V Flag question

For example, if there are 4 elements in the array:

5
6
5
7

If the element to search is 5 then the output Will be:

5 is present at location 1
5 is present at location 3
5 is present 2 times in the array.

Sample Test Cases

Test Case I Input

4
5
6
5
7
5

Output

5 is present at location 1.
5 is present at location 3.
5 is present 2 times in the array.

Test Case 2

Input

5
67
80
45
97
100
50

Output

50 is not present in the array.

swer: (penalty regime: O%)

Ace editor not ready Perhaps reload page? Falling back to raw text area. 1=1

```
1 for i in range ( n ) :
    k=int(input())
    1 . append( k)
c=int(input())
b=[]
for i in range (len(l) ) :
    if l[i]==c:
        b.append(i+1)
if(len(b)!=0):
    for i in b :
        t("[]is present at location o . . format (
c . i) ) t("[] is present [ ) times in the array .
.format(c,len(b)))
else :
        t("[]is not present in the array . .
format ( c ) )
```

Question 12
Correct

Mark out of

Flag

	Input	Expected	G
✓	4 5 6 5 7 5	5 is present at location 1. 5 is present at location 3. 5 is present 2 times in the array.	5 5 5
✓	5 67 80 45 97 100 50	50 is not present in the array.	5(

Passed all tests! E

Correct

Marks for thlS submission: 1.00/1.00.

Determine the factors of a number (i e, all positive integer values that evenly divide into a number) and then return the

1.00 p^{t} element of the list, sorted ascending. If there is no pth element, return 0 Flag question Example n = 20

The factors of 20 in ascending order are {1, 2, 4, 5, 10, 20}. Using I-based indexing, if p = 3, then 4 is returned If p > 6, 0would be returned Constraints

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

1s p s 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 O

Sample Input O

10

3

Sample Output O

5

Explanation O

Factoring n = 10 results in {1, 2, 5, 10}. Return thep = 3rd 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 O is returned as the answer

Sample Case 2

Sample Input 2

Sample Output 2

Explanation 2

Factoring n = 1 results in The p = 1st factor of 1 is returned as the answer.

For example:

Input	Result
10 3	5
10	

Passed all tests'

Question **1**

Correct

Mark 1.00 out of 1.00

Flag question

What is the output of th the following

```
set1 = {10, 20, 30, 40, 50}
set2 = {60, 70, 10, 30, 40, 80, 20, 50}

print(set1.issubset(set2))
print(set2.issuperset(set1))
```

klswer: (penalty regime: O %)
Ace editor not ready
Perhaps reload page?
Falling back to raw text area.

a.
True
True

b.
False
False

c.
False
True

d.
True
False

Your answer is correct.

The correct answer is:
True

True

Question **2**

Correct

Mark 1.00 out of 1.00

Flag

What is the output of th the given belowprogram?

```
t = (58, 47, 36, 25, 14, 
x = t[2:-1]
print(x)
```

```
n: int ( input (
) ) p: int (
input ( ) )

      i in range(1,n+1):
for i if(n%i==0):        inrange
      a . append ( 1 )
if(len(a)>=p):
    print(a[p-1])
else :
    print ( O )
```

	Input	Expected	Got	
	10 3	5		
	10			

all tests!

t = (58, 47, 36, 25, 14, 3)

question

a.
Error

Question **3**

Correct

Mark 1.00 out of 1.00

Flag question

>>>t = (1, 2, 4, 3, 8, 9)

Question **4**

Correct

Mark 1.00 out of 1.00

Flag question

a.

b. (36, 25, 14)

c. (58,47,36,25)

d.

(3,14,25)

Your answer is correct.

The correct answer is:

(36, 25, 14)

What is the output of the following set operation

sampleSet = {"Yellow", "Orange", "Black"}

sampleSet.update(["Blue","Green", "Red")) print(sampleSet)

a.

{'Yellow', 'Orange', 'Red', 'Black', 'Green', 'Blue'}

b.

TypeError: update() doesn't allow list as a argument.

c. Name

Error

d.

{'Yellow', 'Orange', 'Black', ["Blue", "Green" "Red"]}

Your answer is correct.

The correct answer is:

{'Yellow', 'Orange', 'Red', 'Black', 'Green', 'Blue'}

Find the output of the given Python program?

>>>[t[i]for i in range(O, len(t), 2)]

[1, 2, 4, 3, 8, 9]

a.

b.

c.

d.

Your answer is correct.
The correct answer is:

Question 5
Incorrect
Mark 0.00 out of 1.00
Flag question

Find the output of the given Python program?

```
t = (11, 3)
x = 3 * t
print(x)
```

a.

```
[11,11,11,3,3,3]
```

b. (11,3,11,11, 3,11,11,11,3)

c. (11, 3, 11, 3, 11, 3)

d.

```
(11,3)(11,3)(11,3)
```

Your answer is incorrect.
The correct answer is:
(11, 3, 11, 3, 11, 3)

Question 6
Correct
Mark 1.00 out of 1.00
V Flag question

If a=(15,16,17,18,19,25), then a[1:-1 will be

Note :

```
a=(15,16,17,18,19,25)
print((a[1:-1]))
```

(16,17,18)

a.

b. (16,17,18,19)

c. Error

d. (25,19,18,17)

Your answer is correct.
The correct answer is:
(16,17,18,19)

Question 7
Incorrect
Mark 0.00 out of 1.00
Flag question

What is the output of the given below program?
my_tl = (1, 2, 3, 4) my_tl.append((5, 6, 7)) print(len(my_tl))

a. 5

b. Error

c. 1

d. 2

Your answer is incorrect.
The correct answer is:
Error

Question 8

Not answered

Marked out of 1.00 V

Flag question

What is the output of the following code
aSet = {1, 'rec•, (•cse', 'ece'), True}

print(aSet)

{'rec', 1, ('cse','ece'),

a.

b. Erro
r

c. {'re
c', 1, ('cse',
'ece')}

d.

{'rec', True, ('cse', 'ece')}

Your answer is incorrect.
The correct answer is:
{'rec', 1, ('cse', 'ece')}

Question 9
Correct

Mark 1.00 out of 1.00

V Flag question

What will be printed when the following code executes?

```
a = ("Python Programming") print type(a)
```

a. <
class
'int'>

b. s
tr

c.

<class 'str'>

d.
<class 'tuple'>

Your answer is correct.
The correct answer is:
<class 'str'>

a.

Question **10**

Correct

Mark 1.00 out of 1.00

Flag question

10 What will be the output of the below Python code?

```
t1=(55,12,78,64,25)
out t1.pop(12)
```

print(tuplel
)
12

b. E
rror

c. (
12)

d.
(55,78,64,25)

Your answer is correct.
The correct answer is:
Error

Question 11
Correct

Mark 1.00 out of 1.00

Flag question

What is the output Of the following code?

```
aTuple = (10, 20, 30, 40, 50, 60, 70, 80)
print(aTuple[2:5], aTuple[:4], aTuple[3:])
```

a. (10, 20, 30, 40) (40,
50, 60, 70, 80)

b. (30, 40, 50) (10, 20,
30, 40)

c. (30, 40, 50)(40,50,
60, 70, 80)

d.
(30, 40, 50) (10, 20, 30, 40) (40, 50, 60, 70, 80)

Your answer is correct.
The correct answer is:
(30, 40, 50) CIO, 20, 30, 40) (40, 50, 60, 70, 80)

Question 12
Correct

Mark 1.00 out of 1.00

Flag question

a.

Which of the following Python code will create a set?

(i) set1=set((0,9,0))
(ii) set1=set([0,2,9])
(iii) set1={}

b. All of the above

c. i

i

d.

Your answer is correct.

The correct answer is:

All of the above

Question **13**

Incorrect

Mark 0.00 out of 1.00

Flag question

What is printed when the following code is run?

```
tup = ('30', '3', '2', 'print(sorted(tup,reverse =
True))
```

a.

['30', '8', '3', '2']

b.

['2', '3', '8', '30']

c.

['2', '3', '30', '8']

d.

['8', '30', '3', '2']

Your answer is incorrect.

The correct answer is:

['8', '30', '3', '2']

a.

Question **14**

Incorrect

Mark 0.00 out of 1.00

Flag question

Select which is true for Python tuple?

a. We can change the tuple once created

b. A tuple maintains the order of items

c. A tuple is unordered

d. None of these

Your answer is incorrect.
The correct answer is: A tuple maintains the order of items

Question 15
Not answered
Marked out of 1.00
Flag question

Which of the following options will produce the same output?

t = (15, 83, 21, 49, 60,45,52,85,100)#

options i, ii, iii, or iv

```
print(t[:-1])
print(t[0:5])
print(t[0:8])
print(t[-7:])
```

a. i,iii

b.

c. iii,iv

d. ii,iv

Your answer is incorrect.
The correct answer is:

Question 1
Correct
Mark 1.00 out of

IDO

simple Coders here is a task for you. Given sir. check whether is a

Examples:

Input: str = "010 '01010101010'

Output: Yes

Your task is to binary string or not by using python set.

Input: sir •REC 101 •

No

example:

Input	
01010101010	Yes
010101 10101	No

Answer; (penalty regime•• O %)

```
s = input().strip()
binary_set = {'0', '1'}
string_set = set(s)
if string_set.issubset(binary_set
    print("Yes")
else:
    print("No")
```

	Input	Expected	Got	
	01010101010	Yes	Yes	
	REC123	No	No	
	010101 10101	No	No	

passed all tests!

Marks for this LOO/l_oo.

Question 2

Correct

Mark 1.00 ou

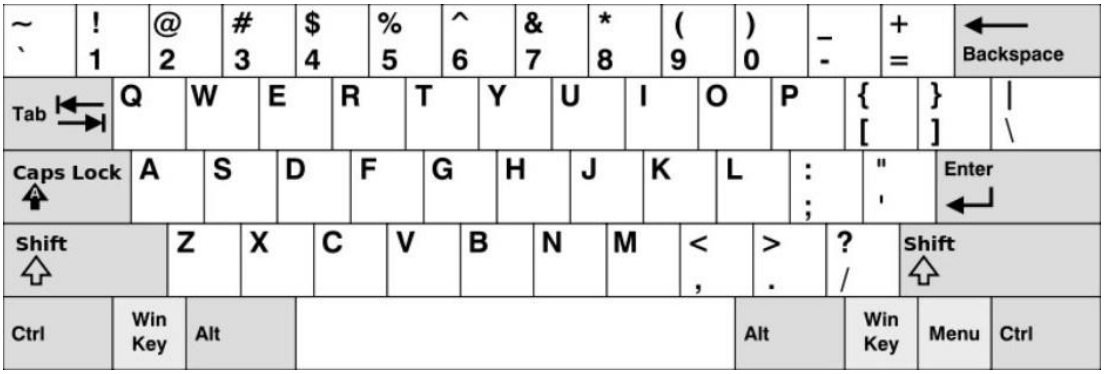
1.00

Given an array of words, return the words that Can be typed using letters af the alphabet on only one raw of American keyboard like the image

In American keyboard:

- •the first raw consists the characters qwertyuiop".
- •the second raw consists of •the characters "asdfghj k l", and

- third row consists of characters "zxcvbnm".



Example I :

Input: words ["Hello" , "Alaska" , "Dad" , "Peace"]
utput: ["Alaska" , "Dad"]

Example2:

Input: words -- ["omk"]
tput: [J

Example3:

Input: words -- ["adsdf" , "sfd"]
utput: ["adsdf" , "sfd"]

For example:

	Resuli
4 Hello Alaska Dad Peace	Alaska Dad
adsfd afd	adsfd afd

Answer: (penalty regime: O %)

```
= int(input())
for i in range(n) : x =
    input()          1.
    append(x)
```

```
rl = "qwertyuiop" r2 = ' 'asdfghjkl" r3 — " zxcvbnm" 11 =
for i in 1: x = len(i)
        i . lower ( )
    count - O for j in a:
        if j in r2:
            count+=l if count
                11 .apper
for i in 11 : print(i) if len(
print("No words")
                                    len(i):
```

	Input	Expected		
	4 Hello Alaska Dad Peace	Alaska Dad	Alaska Dad	
	0111k	NO words	NO words	
	2 adsfd afd	adsfd afd	adsfd afd	

Passed all uses!

Marks -For this submission 1.00/1.

Question 3

Correct

Mark 1.00 ow

1.00

There is a malfunctioning keyboard where some letter keys do not work. All other keys on •the keyboard work properly.

Given a girind •text words separated by a single space (no leading ar •trailing spaces) and a siring brokenl-eiierc all distinct letter key •that are broken, return •the number of words in •text you can fully -type using this keyboard.

Example l :

Input: = •hello world•, brokenl-et*ers = •ad•

Output:

Explanation: We cannot •type world* because the key is broken.

For example:

	Result
hello world ad	
Faculty Upskilling in Python Programming ak	2

Answer: (penalty regime: O%)

```
2    —input ( )
3    .    split()
     x=input()
5    , count=O
6    , for i in x:
7         for j in 1:
8              if(i in j):
9    count+=l break
     print(count)
```

	Impui	Expected		
	hello world ad			
	Welcome to REC			
	Faculty Upskilling Python Programming ak	2	2	

A"estion4
Correct

Mark 1.00 ow

1.00

Write a program •to eliminate the Common elements in given arrays and print only non-repeating elements and •the •total number of such non-repea•tin8 elements.

Inpu± Format:

The first line contains space-separated values, denoting the size the •two arrays in integer format respectively.

The next •two lines contain space-ceparaied integer arrays be compared.

Sample Input:

5 4

1 2 8 6 5

2 6 8 10

SampleOutput:

1 5 10

SampleInput:

5 5

1 2 3 4 5

1 2 3 4 5

SampleOutput:

NO SUCH ELEMENTS

Forexample:

Input	Result
5 4 1 2 8 6 5 2 6 8 10	1 5 10 3
5 5 1 2 3 4 5 1 2 3 4 5	NO SUCH ELEMENTS

Answer: (penalty regime: O %)

```
izes = sizel size2 arrl =
list(map(int, arr2 =
list(map(int, setl = set(arrl )
set2 = set(arr2)
unique_in_arrl = setl - set2
unique_in_arr2 = set2 - setl
result = list(unique_in_arr1) +

if result:
    result . sort() print("
".join(map(str, resu print
(len(result)) else:
    print("NO SUCH ELEMENTS")
```

	Inpu-t	Expected		
	12 8 6 5 26 8 10	1 5 10 3	1 5 10 3	
	10 10 10 10 11 12	1 1 12 2	11 12 2	
	5 5 1 2 3 1 2 3	NO SUCH ELEMENTS	NO SUCH ELEMENTS	

Passed all tests!

Marks -For this submission: 1.00/1.

A"estion 5
Correct

Mark 1.00 ou

1.00

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

E*ample

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

```
Output: 2
```

Example 2:

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

utput: 3

Forexample;

Inpui	Resuli
1 3 4 4 2	4

Answer: (penalty regime: O %)

```
ums = list(map(int, input() . spl
seen = set()
duplicate = None
for num in nums :
    if num in seen:
duplicate = num
break seen. add(
num) print(duplicate)
```

	Inpui	Expected		
	1 3 4 4 2	4	4	
	1 2 2 3 4 5 6 7	2	2	

Passed all uses!

Marks -For this submission.00/1.

Question 1
Correct

Mark 1.00 out of 1.00

Flag question

Which of the following is an example of dictionary?

a. None of the mentioned

b.

c.

d.

The correct answer is D=

Question 2
Incorrect

Mark 0.00 out of 1.00

Flag question

Which of the following is used to delete an element from Dictionary?

a. remove

b. pope

c. None of the mentioned

d.
delete

The correct answer is: pope

Question 3

Incorrect

Mark 0.00 out of 1.00 V

Flag question

Dictionary is a____data type.

a. Sequence

b. Mapping

c. None of the mentioned

d. Ordered

The correct answer is: Mapping

Question 4

Correct

Mark 1.00 out of 1.00 V

Flag question

To obtain the number of entries in dictionary which command is used?

a. d.size()

b. d.len()

c. size(d)

d. len(d)

Your answer is correct.
The correct answer is:
len(d)

Question 5

Correct

1.00 out of 1.00 V

Flag question

In dictionary Keys and values are separated by____.

a. Semicolon(;)

b. Comma(,)

c. C
olon (O

d. d
ot(.)

Question 6
Correct
Mark 1.00 out of 1.00
Flag question

The correct answer is: Colon @

pope function delete and ____the element of dictionary.

a. r
eturn

b. d
isplay

c. n
ot return

d.
add

Question 7
Correct
Mark 1.00 out of 1.00
Flag question

The correct answer is: return

Keys in dictionary are____.

a. I
mmutabl
e

b. i
ntegers

c. M
utable

d.
antique

Question 8
Correct
Mark 1.00 out of 1.00
Flag question

The correct answer is: Immutable

What is the value of counter after the code is run?
phrase = "Cheese!!!! Cheese!!!! Python is a programming Language.Python! ! " counter = O letters = { } for word in phrase.split():
for letter in word:
letter = letter.lower() if
letter not in letters.keys():

Question

```
            letters[letter] = O
letters[letter]       1 for
key in letters.keys():
    if letters[key] > 2:
        counter       1
```

print(counter)

Answer: 9

The correct answer is: 9

Question **9**

Incorrect

Mark 0.00 out of 1.00

Flag question

The key-value pair in dictionary is called ____.

a.
item

b.
paired value

c.
pair item

d.
value

The correct answer is: item

Question **10**

Correct

Mark 1.00 out of 1.00

Flag question

What will be the output of the following Python code snippet?

```
a={1:"A",2:"B",3:"C"}
print(a.get(5,4))
```

a.
5

b.
4

c.
Invalid Synatx,Error

d.
A

Your answer is correct.

The correct answer is:
4

Question **11**

Incorrect

Mark 0.00 out of 1.00

There is no index value in dictionary like we have in List.(T/F)

Question

What will be the output of the following Python code snippet?

Flag question

here is no index value in dictionary like we have in

a.

b.

Question **12**

Correct

Mark 1.00 out of 1.00

Flag question

Question **13**

Correct

Mark 1.00 out of 1.00

Flag question

a.

b.

Question **14**

Correct

Mark 1.00 out of 1.00

Flag question

a.

b.

c.

d.

Question **15**

Incorrect

Question

List.(T/F) False

True

The correct answer is: True

In Python, Dictionaries are immutable

Select one:

True

False Cl

The correct answer is 'False'.

We can repeat the values of Key in Dictionary?

True

False

The correct answer is: True

Traversing a dictionary can be done using____.

None of the mentioned

jump statement

loop

if statement

The correct answer is: loop

Only values (without keys) can be printed in dictionary?

Mark 0.00 out of 1.00

Flag question

a
True

b
False

The correct answer is: True

Finish review

Question

Correct

Question 1 t of 1.00

Correct

Mark 1.00 out

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

Points Letters I A, E, l, L,

N,), R, S, T andU

2 D and G 3

B, C, M and P

4 F, H, V, W and Y

5K

8 J and X

10 Q and Z

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

A Scrabbl& 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

SamQle Output

REC is worth 5 points.

For example:

Input	Result
REC	REC is worth 5 points.

Answer.• (penalty regime: 0%)

```
2   etter points = {
3       "A": 1, "E": 1, "I":
4       "D": 2, "G": 2,
5       "B": 3, "C": 3, "M":
6       "F": 4, "H": 4, "V":
7       "K": 5,
8       "J": 8, "X": 8,
9       "Q": 10, "Z": 10
10
                              1, "L":
11  word = input() .upper()
12  score = sum(letter_points[3, "P":
13  print(f"{word} is worth {4, "W":
14
                                  score}
```

Passed all tests!

	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.	

Correct

Marks for this submission: 1.00/1.00.

Question

Correct

Mark 1.00 out of 1.00

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

Examples:

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

Output : John

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

Sample Input:

10

John

John

Johny

Jamie

Jamie

Question 2

Correct

Mark 1.00 out

Johny

Jack

Johny

Johny

Jackie

Sample Output:

Johny

Answer: (penalty regime: O %)

```
n — int(input()) votes --
[input() for in range(

vote_count = defaultdict(int) for name in votes:
    vote_count [name] += 1

max_votes = max(vote_count . value
candidates = [name for name, vot
print(min(candidates))
```

	Input	Expected	Got	

```
rom collections import defaulte
```

Question

Correct

Question 3 t of 1.00

Correct

Mark 1.00 out

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

Passed all tests!

Correct

Marks for this submission: 1.00/1 .00.

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 sl and s2, return a of all the uncommon words. You may return the answer in any order.

Example 1:

Input: sl = "this apple is sweet", s2 = "this apple is sour"
Output: ["sweet","sour"]

Example 2:

Input: sl = "apple apple", s2 = "banana"
Output: ["banana]

Constraints:

1 sl length, s2.length <= 200 sl and s2 consist of lowercase English letters and spaces. sl and s2 do not have leading or trailing spaces.
All the words in sl and s2 are separated by a single space.

Note:

Use dictiQn.acy. to solve the problem

For example:

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

Answer: (penalty regime: O %)

```
    ef s2) : words_count — for word in
        sl .split( ) : words_count[word]
        = wort for word in s2.sp1it( ) :
            words_count[word] = wort
        uncommon_words = [word for
        return ' ' . join( uncommon_wor
sl — input() s2 = input()
result =
uncommonWords(s1 ,
print(result)
```

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

passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question

Correct

Question 4 t of 1.00

Correct

Mark 1.00 out

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

Input : test_dict = {'Gfg' : [6, 7, 4], 'best' : [7, 6, 51}

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 674

Best 7 6 5

Sample Output

Gfg 17

Best 18

For example:

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

Answer: (penalty regime: O %)

```
2    =    int(input(    ))
3  test_dict =

5
6  for    in range(n):
7      key,  *values  =  input()  .  split
8      test_dict[key] = list(map(in
9
10 sorted_dict = {key: sum(values)
,  for key, value in sorted_dict. it
11     print(f"{key} {value}" )
12
```

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

	2 Gfg 6 6 Best 5 5	Best 10 Gfg 12	Best 10 Gfg 12	

Passed all tests!

Correct

Marks for this submission: 1.00/1 .00.

Question

Correct

Question 5 t of 1.00

Correct

Mark 1.00 out

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

3.1dentify 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
James 67 89 56 calith 89 45 45 Ram 89 89 89 Sita 70 70 70	Ram James Ram Lalith Lalith

Answer: (penalty regime: O %)

```
2    Get the number of students
3  n = int(input())
4
4  # Create an empty dictionary to students
5  =
6
7  # Iterate over each student's in for
           in range(n):
9      student_info = input() split
10     name = student_info[0]scores
1 1    = { ' test ' : int ( studer
12     students [name] -- scores
```

```
# Calculate the average score fc def
calculate_average(scores):
return sum(scores.values())

# Initialize variables to store
highest_avg_students —
highest_avg_score = float( ' -inf'
lowest_avg_students
lowest_avg_score = float( ' inf' )
highest_assignment_students
highest_assignment_score = float
lowest_lab_students = []
lowest_lab_score = float= float(' inf' )

# Iterate over the students to c for
student, scores in students .
avg_score = calculate_averag

    # Check for highest average if
    avg_score > highest_avg_s
    highest_avg_score = avg_
    highest_avg_students = elif
    avg_score      highest_av app

    # Check for lowest average s if
    avg_score < lowest_avg_sc
    lowest_avg_score = avg—S
        lowest_avg_students = [s
elif avg_score == lowest_avg
    lowest_avg_students.appe

    # Check for highest assignme if
    scores[ 'assignment' ] > hi
    highest_assignment_score
    highest_assignment_stude elif
    scores['assignment' ]
    highest_assignment_stude
```

	Input	Expected	Got	
	James 67 89 56 Lalith 89 45 45 Ram 89 89 89 Sita 70 70 70	Ram James Ram Lalith Lalith	Ram James Ram Lalith Lalith	
	3 Raja 95 67 90 Aarav 89 90 90 Shadhana 95 95 91	Shadhana Shadhana Aarav Raja Raja	Shadhana Shadhana Aarav Raja Raja	

Passed all tests!

Correct

Marks for this submission: 1-00/1 .00.

Question

Correct

Mark 1.00 out of 1.00

Week8_MCQ

Jump to...

Functions —+

Question 1
Correct

Mark 1.00 out of 1.00 V Flag question

a.

The return statement in function is used to____.

a. None of the mentioned

b. return value

c. Both return value and returns the control to the calling function

d.
returns the control to the calling function

The correct answer is: Both return value and returns the control to the calling function

Question 2
Correct

Mark 1.00 out of 1.00

Flag question

Python function always returns a value

Select one:

True

False

The correct answer is 'True'.

Question 3
Correct Mark 1.00 out of 1.00 V Flag question

Write the output of : print(min(tuple("computer")))

a.

b.

t

c.

d.

The correct answer is: c

he function can be called in the program by writing function name ____'

Question **4**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question **5**

Correct

Mark 1.00 out of 1.00

Flag question

Question **6**

Correct

a.
followed by out

a. No
ne of the
mentioned

b. c.

d.

The correct answer is:

cal(nl) : What is n1?

out

a. N
one of the
mentioned

b. K
eyword

c. Parameter

d. Argument

The correct answer is: Argument

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

What is the output of the following function call?

```
def funl(num):
    return num + 25
print(num)
```

a. num

a.

b. 5

c. 2
5

d.
NameError

Your answer is correct.
The correct answer is:
NameError

Question 7
Incorrect
Mark 0.00 out of 1.00
V Flag question

def cal(nl) : What is nl?

a. A
rgument

b. P
arameter

c. N
one of the mentioned

d.
Keyword

The correct answer is: Parameter

Question 8
Correct
Mark 1.00 out of 1.00
Flag question

In a program, a function can be —— calledtimes.

5

b.
2

c. Multiple times

d.
3

The correct answer is: Multiple times

a.

Which of the following are advantages of using function in program?

Question **9**

Correct

Mark 1.00 out of 1.00

Flag question

Question **10**

Correct

Mark 1.00 out of 1.00

Flag question

Question **11**

Correct

out

a. It increases reusability.

b. It increases readability of program.

c. All of the mentioned

d. It makes debugging easier.

The correct answer is: All of the mentioned

10 ____can be defined as a named group of instructions that accomplish a specific task when it is invoked/called.

out

a. Token

b. Function

c. Operator

d. Datatype

The correct answer is: Function

Question II

What will be the output of the following Python code?

a.

Mark .00 out of 1

```
def maximum(x, y):
```

Que

Cor

Mar
of 1

F
que

Que

Not

Mar
1.0

F

1.00 `if x > y:`

Flag return x question elifx y:

return 'The numbers are equal' else:

`return y`

print(maximum(2, 3))

a. 3

b. None of the mentioned

c. The numbers are equal

d. 2

Your answer is correct.

The correct answer is:
3

Question 12 Which one of the following is the correct way of calling a Correct function?

Mark 1.00 out of 1.00

V Flag a. question ret function_name()

b. function function_name()

c. call function_name()

d. function_name()

Your answer is correct.

The correct answer is:
function_name()

a.

Question 13Choose the incorrect statement.

Not answered

Marked out of 1.00

Flag question

None of the mentioned

b. print(pow(2.3, 3.2))

c. print(pow(2, 3))

d. print(pow(2, 3, 2))

The correct answer is: None of the mentioned

Question 14

Correct

Mark 1.00 out of 1.00

Flag question

Which of the following is not the scope of variable?

a. None of the mentioned

b. Global

c. Local

d. Outside

The correct answer is: Outside

Question **15**

Not answered

Marked out of 1.00

Flag question

Fill in the line of the following Python code for calculating the factorial of a number?

def factorial':if or **n==0**return 1

else: return DC] num = 5 .

print("number : ",num)

print("Factorial :
",factorial(num))

a. fact'
*fact(n-l)

b. n*(n-
l)

c.
(n-1)*(n-2)

d.
(n * factorial(n - 1))

Your answer is incorrect.
The correct answer is:
(n * factorial(n - 1))

Question 1

Correct

Mark 1.00 out of 1.00

Given a number with maximum of 100 digits as input, find the difference between the sum of odd and even position digits.

Input Format:

Take a number in the form of String from stdin.

Output Format:

Print the difference between sum of even and odd digits

Example input:

1453

Output:

Explanation:

Here, sum of even digits is 4+ 3 = 7
sum of odd digits is 1 + 5= 6.

Difference is 1.

Note that we are always taking absolute difference

Answer: (penalty regime: 0 %)

Reset answer

```
, éef differenceSum(n):
nu=str(n)
even=sum(int(nu[i]) for i in ra
odd=sum(int(nu[i]) for i in ran
return abs(even-odd)
ferenceSum( 1453)
```

	Test	Expected	Got	
	print (di fferenceSum(1453))			

Passed all tests!

Correct

Marks for this submission: 1.00/1 .00.

An abundant number is a number for which the sum of its proper divisors is greater than the number itself. Proper divisors of the number are those that are strictly lesser than the number.

Question

Correct

Question 2 t of 1.00

Correct

Mark 1.00 out

Input Format:

Take input an integer from stdin

Output Format:

Return Yes if given number is Abundant. Otherwise, print No

Example input:

12

Output:

Explanation

The proper divisors of 12 are: 1, 2, 3, 4, 6, whose sum is 1 + 2+ 3 + 4+ 6 = 16. Since sum of proper divisors is greater than the given number, 12 is an abundant number.

Example input:

13

Output:

No

Explanation

The proper divisors of 13 is: 1, whose sum is 1. Since sum of proper divisors is not greater than the given number, 13 is not an abundant number.

For example:

Test	Result
pr int (abundant(1 2))	Yes
pr int(abundant(13))	NO

Answer: (penalty regime: O %)

Reset answer

```
gef abundant (num) :
    divisor sum = O
    for i in range(I , num) :
        if num % i divisor
        sum      i
    if divisor_sum > num:
        return "Yes" else
    :
        return "No"
try:
    while True:
        num  =  int(input())
print(abundant(num)) except
EOFError:
```

```
    pass
```

	Test	Expected	Got	
	`print(abundant(12))`	Yes	Yes	
	print(abundant(13))	NO	NO	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1 .00

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, ...l 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^Aa * 3^Ab * 5^Ac, where a, b and c are nonnegative integers.

For example:

Test	Result
`print(checkUgly(6))`	ugly
pr int (checkUg1y(21))	not ugly

Answer: (penalty regime: O %)

Reset answer

```
1
2
   ,3
5
6 ,
7
8 ,
9
  10 ,
 1 1
  12 ,
 13
def checkUg1y(n):
    if n     O:
        return "not ugly"
    while n
    while
    while
    if     n     return
"ugly" else:
        return "not ugly"
```

	Test	Expected	Got	
	print (checkUg1y(6))	ugly	ugly	
	`print(checkUgly(21))`	not ugly	not ugly	

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1 .00.

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 the number is not valid, it should display "Invalid input".

Question 4

Correct

Mark 1.00 out of 1 .00

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

Input Format:

Take a Integer from Stdin 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: 7 Output: Not Automorphic

For example:

Test	Result
pr int (automorphic(5))	Automorphic

Answer: (penalty regime: O %)

Reset answer

```
ef is_automorphic(num) :
    square = num return
    str(square) . endswith(
def automorphic(num)
    : if num < O:
        return "Invalid input"
    elif is_automorphic(num) :
    return "Automorphic" else :
        return "Not Automorphic"
# Read input from stdin try
:
    num = int(input())
print(automorphic(num))
except ValueError:
    print("          Invalid
input") except EOFError:
pass
```

	Test	Expected	Got	
	print (automorphic(5))	Automorphic	Automorphic	
	print (automorphic(7))	Not Automorphic	Not Automorphic	

Passed all tests!

Correct

Marks for this submission: 1.00/1 .00.

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.

Question 5

Correct

Mark 1.00 out of 1 .00

Constraints

1 orderValue< 1 Oe100000

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.

	Test	Expected	Got	

Question 5

Correct

Mark 1.00 out of 1 .00

	print (christmasDiscount(578))	12	12		Example Input 578

Output

12

For example:

Test	Result
pr int (christmasDiscount(578))	12

Answer: (penalty regime: 0 %)

Reset answer

```
2 ,
  3
5 ,
  6
  7
  8
9 ,
 10
12 ,
 13
 14
 15
16 ,
17 ,
 18
 19
 20
21 ,
 22
 23
```

```
Pef   if num < 2:
          return False for i in
      range(2, int (num if num %
      1 return False return True

      christmasDiscount(tota1_bi11
      discount_value = O for digit in
def   if          int(digit)):
                  discount value      ir
                                  _
      return discount_value


try : while True:
          total_bill = int(input()
          discount = christmasDisc
          print(discount)
except  EOFError:
      pass # Exit gracefully when
```

Passed all tests!

Correct

Marks for this submission: 1.00/1 .00.

Week9_MCQ

Jump to...

Searching -4

Question 1
Correct

Mark 1.00 out of 1.00

a.

V Flag question

Very slow way of sorting is_____

a. Insertion sort

b. Quick sort

c. Heap sort

d. Bubble sort

Your answer is correct.
The correct answer is:
Insertion sort

Question 2
Correct

Mark 1.00 out of 1.00

Flag question

_____ sort is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements in case they are unordered in n-1 passes.

out

Complexity

b.
Insertion

c.
Selection

d.
Bubble

Your answer is correct.
The correct answer is: Bubble

Question 3
Correct
Mark 1.00 out of 1.00
V Flag question

Which of the following is not an in-place sorting algorithm?

a. He ap sort

b. Sel ection sort

c. M erge sort

d.
Quick sort

Your answer is correct.
The correct answer is:
Merge sort

Question 4
Correct
Mark 1.00 of 1.00
Flag question

a. _____ search takes a sorted/ordered list and divides it in the middle.

out

a.
Hash

b. L
i
n
e
a
r

c. B
o
t
h
(
1
)
&
(
3
)

d.
Binary

Your answer is correct.
The correct answer is:
Binary

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

The process of placing or rearranging a collection of elements into a particular order is known as

a. S
earching

b. M
erging

c. S
orting

out

a.

d.

Rearranging

Your answer is correct.

The correct answer is: Sorting

Question 6

Mark 1.00 of 1.00

Flag question

Given an array arr = {45,77,89,90,94,99,100} and key = 99; what are Correctthe mid values(corresponding array elements) in the first and second levels of recursion?

89 and 99

b. 9

0 and 94

c. 9

0 and 99

d.

89 and 94

Your answer is correct.

The correct answer is:

90 and 99

Question 7

Incorrect

Mark 0.00 out of 1.00

Flag question

Two-way merge sort algorithm is used to sort the following 200,470,150,80,90,40,400,300,120,70 elements in ascending order.

What is the order of these elements after second pass of the merge sort algorithm?

a.

200,470,80,150,40,90,300,400,70,120

b.

out

a.
40,70,80,90,120,150,200,300,400,470

c.

40,80,90,150,200,300,400,470,70,120

d.

80,150,200,470,40,90,300,400,70,120

Your answer is incorrect.
The correct answer is:

80,150,200,470,40,90,300,400,70,120

Question **8**

Not answered

Marked out of 1.00

Flag question

Which of the following is not a limitation of binary search algorithm?

There must be a mechanism to access middle element directly

b.
Requirement of sorted array is expensive when a lot of insertion and deletions are needed

c. Must use a sorted array

d.
Binary search algorithm is not efficient when the data elements more than 1500

Your answer is incorrect.
The correct answer is:
Binary search algorithm is not efficient when the data elements more than 1500

a.

Question 9
Incorrect
Mark 0.00 out of 1.00
Flag question

Given an array arr = {45,77,89,90,94,99,100} and key = 100; What are the mid values(corresponding array elements) generated in the first and second iterations?

a. 8
9 and 94

b. 9
0 and 100

c. 9
0 and 99

d.
94 and 99

Your answer is incorrect.
The correct answer is:
90 and 99

Question 10
Correct
Mark 1.00 out of 1.00
V Flag question

_____explain how an algorithm will perform when the input grows larger.

out

a.
Com plexity

b. S
orting

c. M
erging

d.
Searching

Your answer is correct.
The correct answer is:
Complexity

Question 11
Correct
Mark 1.00 out of 1.00
Flag question

In _____checks the elements of a list, one at a time, without skipping any element.

a. Bot
h (1) & (3)

b. Has
h search

c. Lin
ear search

d.
Binary search

Your answer is correct.
The correct answer is:
Linear search

Question **12**

Correct

Mark 1.00 out of 1.00

Flag question

What is mean by stable sorting algorithm?

A sorting algorithm is stable if it preserves the order of duplicate keys

b. A sorting algorithm is stable if it preserves the order of all keys

c.
A sorting algorithm is stable if it preserves the order of non-duplicate keys

d.
A sorting algorithm is stable if it doesn't preserver the order of duplicate keys

Your answer is correct.
The correct answer is:
A sorting algorithm is stable if it preserves the order of duplicate keys

Question 13

Correct

Mark 1.00 out of 1.00

Flag question

_____ is putting an element in the appropriate place in a sorted list yields a larger sorted order list.

a. Insertion

b. Selection

c. Extraction

d. Distribution

Your answer is correct.

a.

The correct answer is:
Insertion

Question Incorrect

Mark 0.00 out of 1.00

Flag question

14 The average case occurs in the linear search algorithm

a. When the item is the last element in the array

b. When the item is not the array at all

c. Item is the last element in the array or item is not there at all

d.
When the item is somewhere in the middle of the array

Your answer is incorrect.
The correct answer is:
When the item is somewhere in the middle of the array

Question 15
Correct
Mark 1.00 out of 1.00
Flag question

Algorithm design technique used in merge sort algorithm is

a. Dynamic programming

b. Greedy method

c. Divide and conquer

d. Backtracking

Your answer is correct.
The correct answer is:
Divide and conquer

Finish review

Question

Correct

Question 1 t of 1.00

Correct

Mark 1.00 out

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

Ali-I] Ali] for middle elements.[0<i<n-1

Ali-I] A[i] for last element [i=n-I]

>=A[i+1]for first element [i=O]

Input Format

The first line contains a single integer n , the length of

A .The second line contains n space-separatedintegers

Output Format

Print peak numbers separated by space.

Sample Input

5

8 9 102 6

Sample Output

10 6

For example:

Input	Result
4 12 3 6 8	12 8

Answer: (penalty regime: O %)

```
gef find_peak_elements(n, A) :
    peaks
    if peaks == 1:
        peaks.append(A[0]
    n
    ) else:
        # Check first element
        if ALO] > __ All ] :
            peaks . ippend(A[0])
        # Check middle elements for i in range(l , n - 1 ) if A[i] Ali - 1] peaks. append(A[i
        # Check last element if A[n - A[n peaks . append(A[n -
    return peaks

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

```
# Print the output peaks)))
print(" " .join(map(str
    ,
```

```
A = list(map(int, input() .split(
  Find peaks peaks =
find_peak_elements(n, A)
```

	Input	Expected	Got	
	7 15 7 10 8 9 4 6	15 10 9 6	15 10 9 6	
	4 12 3 6 8	12 8	12 8	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question

Correct

Mark 1.00 out of 1.00

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

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

For example, given a worst-case but small array to sort: It took 3 swaps to sort the array. Output would be

```
rray is sorted in 3 swaps.
First Element: 1
```

```
ast Element: 6
```

Input Format

The first line contains an integer,n , the size of the 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:

- Listis sorted in numSwaps swaps., where numSwaps is the number of swaps that took place.

```
1,
2  Pef n = len(a) num_swaps =
3      O
```

Question

Correct

Mark 1.00 out of 1.00

Question 2

Correct

Mark 1.00 out

4

2. First Element: firstElement, the first element in the sorted list.

3. Last Element: lastElement, the last element in the sorted list.

Sample Input O

3

1 23

Sample Output O

List is sorted in O

swaps.

First Element: 1
Last Element: 3

For example:

Input	Result
3 3 2 1	List is sorted in 3 swaps. First Element: 1 Last Element: 3
5 1 9 2 8 4	List is sorted in 4 swaps. First Element: 1 Last Element: 9

Answer: (penalty regime: O %)

```
5
,
6
,
    8
    9
    10
    11
    12
13
14
15
16
17
    18
    19
    20
    21
    22
    23
    24
```

```
    for i in range(n): for j
        in range((), n -
            if  a[j] > a[j + 1]:
                a[j], a[j + 1] =
                num_swaps += 1


    return num_swaps, a[0], a[-1

  Reading
input n =
int(input())
a = list(map(int, input().split(

# Perform bubble sort
Perform bubble sort num_swaps,
first_element, last_e

# Print the output
print(f"List is sorted in" ,
num_ print(f"First
Element:" , first_el
print(f"Last Element: " ,
last_elen
```

	Input	Expected	Got	

	3 3 2 1	List is sorted in 3 swaps. First Element: 1 Last Element: 3	List is sorted in 3 swaps. First Element: 1 Last Element: 3	
	5 1 9 2 8 4	List is sorted in 4 swaps. First Element: 1 Last Element: 9	List is sorted in 4 swaps. First Element: 1 Last Element: 9	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1 .00

Write a Python program for binary search. For example:

Input	Result
1,2,3,5,8 6	False
3,5,9,45,42 42	True

Answer: (penalty regime: 0 %)

```
1 n=input()
2 k=(input())
3       , if k in n:
4       print(True) 5 , else:
6 print(Fa1se)
```

	Input	Expected	Got	
	1,2,3,5,8 6	False	False	
	45 , 42 42	True	True	
	52 ,45, 89 ,43, 1 1 11	True	True	

Passed all tests!

Correct

Marks for this submission: 1.00/1 .00.

Bubble Sort is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements if they are in wrong order. You read an Lis! 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.

Question **4**

Correct

Mark 1.00 out of 1 .00

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: O %)

```
ef bubble_sort(arr):
    n = len(arr) for i
    in range(n):
        # Flag to check if any s
    swapped = False for j in range(C),
    n-i-l ) if arr[j ] > arr[j+l ] # Swap
    elements arr[j] , arr[j+1]
    swapped = True # If no swaps
    occurred, if not swapped: break
    return arr

# Read input n = int(input())
arr = list(map(int, input().spli

# Sort the array using bubble sc sorted_arr
= bubble_sort(arr)

# Print the sorted array
for num in sorted_arr:
print(num, end=" '
```

	Input	Expected	Got	
	6	1 2 4 7 8 3	1 2 4 7 8 3	

Question **5**

Correct

Mark 1.00 out of 1 .00

	3 4 8 7 1 2			
	6 9 18 1 3 4 6	4 6 9 18	4 6 9 18	
	5 4 5 2 3 1	1 2 3 4 5	1 2 3 4 5	

An Lis! 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 1 0, the answer is yes (4 and 6). A number may be used twice.

Input Format

The first line contains a single integer n , the length oflist

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

0 1 246 53

Sample Output

Yes

For example:

Input	Result
5 8 9 12 15 3 11	Yes
6 2 9 21 32 43 43 1 4	NO

Answer: (penalty regime: O %)

Question 6

Correct

Mark 1.00 out of 1 .00

```
Pef has_pair_with_sum(lst, k):
    seen = set() for num in 1st:
        if k - num in seen:
    return "Yes" seen.
    add(num) return "No"

# Read input n —
int(input()) 1st =
list(map(int, input(). spli k =
int(input())

# Check if there exist two numbe print(has_pair_with_sum(lst,
k))
```

	Input	Expected	Got	
	5 12 15 3 11	Yes	Yes	
	6 21 32 43 43 4	NO	NO	
	6 13 42 31 4 8 9 17	Yes	Yes	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

WeeklO_MCQ

Jump to...

Add 2 nos -9