Started on	Thursday, 14 March 2024, 1:42 PM
State	Finished
Completed on	Thursday, 14 March 2024, 1:54 PM
Time taken	11 mins 39 secs
Grade	**9.00** out of 10.00 (**90**%)

Question **1**

Correct

Mark 1.00 out of 1.00

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

a. print() ✓

b. val()

c. printf()

d. scanf()

Your answer is correct.

The correct answer is:
print()

Question **2**

Correct

Mark 1.00 out of 1.00

What will be the output of the following code snippet?

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

a. int

b. obj

c. float ✓

d. str

Your answer is correct.

The correct answer is:
float

Question **3**

Correct

Mark 1.00 out of 1.00

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

```
var = 10
print(type(var))
var = "Hello"
print(type(var))
```

a. float and str

b. int and int

c. int and str ✓

d. No output

Your answer is correct.

The correct answer is:
int and str

Question **4**

Correct

Mark 1.00 out of 1.00

Which one of the following is the correct extension of the Python file?

a. .cpp

b. .py ✓

c. .python

d. .p

Your answer is correct.

The correct answer is:
.py

Question **5**

Correct

Mark 1.00 out of 1.00

Which of the following declarations is incorrect in python language?

a. xyzp = 5,000,000

b. x,y,z,p = 5000, 6000, 7000, 8000 ✓

c. x_y_z_p = 5,000,000

d. x y z p = 5000 6000 7000 8000

Your answer is correct.

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

Question **6**

Correct

Mark 1.00 out of 1.00

Who developed the Python language?

a. Dennis Ritchie

b. Guido Van Rossum ✓

c. Bill Gates

d. Von Neumann

Your answer is correct.

The correct answer is:
Guido Van Rossum

Question **7**

Incorrect

Mark 0.00 out of 1.00

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

Answer: a=float(intput()) ✗

The correct answer is: float(input())

Question **8**

Correct

Mark 1.00 out of 1.00

What will be the output of the following code snippet?

```
a = 3
b = 1
print(a, b)
a, b = b, a
 print(a, b)
```

a. 3 1 ✓
   1 3

b. 3 1
   3 1

c. No output

d. 1 3
   3 1

Your answer is correct.

The correct answer is:
3 1
1 3

Question **9**

Correct

Mark 1.00 out of 1.00

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

a. Indentation ✓

b. Curly brace

c. Key

d. Parenthesis

Your answer is correct.

The correct answer is:
Indentation

Question **10**

Correct

Mark 1.00 out of 1.00

What will be the output of the following python Code-

mystring="India is my country"

print(type(mystring))

a. 'str'

b. str

c. class str

d. <class 'str'> ✓

Your answer is correct.

The correct answer is:
<class 'str'>

◄ Basics of Python

Jump to...

Week1_Coding ►

Started on	Thursday, 14 March 2024, 1:42 PM
State	Finished
Completed on	Thursday, 14 March 2024, 1:54 PM
Time taken	11 mins 39 secs
Grade	**9.00** out of 10.00 (**90**%)

Question **1**

Correct

Mark 1.00 out of 1.00

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

a. print() ✓

b. val()

c. printf()

d. scanf()

Your answer is correct.

The correct answer is:
print()

Question **2**

Correct

Mark 1.00 out of 1.00

What will be the output of the following code snippet?

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

a. int

b. obj

c. float ✓

d. str

Your answer is correct.

The correct answer is:
float

Question **3**

Correct

Mark 1.00 out of 1.00

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

```
var = 10
print(type(var))
var = "Hello"
print(type(var))
```

a. float and str

b. int and int

c. int and str ✓

d. No output

Your answer is correct.

The correct answer is:
int and str

Question **4**

Correct

Mark 1.00 out of 1.00

Which one of the following is the correct extension of the Python file?

a. .cpp

b. .py ✓

c. .python

d. .p

Your answer is correct.

The correct answer is:
.py

Question **5**

Correct

Mark 1.00 out of 1.00

Which of the following declarations is incorrect in python language?

a. xyzp = 5,000,000

b. x,y,z,p = 5000, 6000, 7000, 8000 ✓

c. x_y_z_p = 5,000,000

d. x y z p = 5000 6000 7000 8000

Your answer is correct.

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

Question **6**

Correct

Mark 1.00 out of 1.00

Who developed the Python language?

a. Dennis Ritchie

b. Guido Van Rossum ✓

c. Bill Gates

d. Von Neumann

Your answer is correct.

The correct answer is:
Guido Van Rossum

Question **7**

Incorrect

Mark 0.00 out of 1.00

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

Answer: a=float(intput()) ✗

The correct answer is: float(input())

Question **8**

Correct

Mark 1.00 out of 1.00

What will be the output of the following code snippet?

```
a = 3
b = 1
print(a, b)
a, b = b, a
 print(a, b)
```

a. 3 1 ✓
   1 3

b. 3 1
   3 1

c. No output

d. 1 3
   3 1

Your answer is correct.

The correct answer is:
3 1
1 3

Question **9**

Correct

Mark 1.00 out of 1.00

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

a. Indentation ✓

b. Curly brace

c. Key

d. Parenthesis

Your answer is correct.

The correct answer is:
Indentation

Question **10**

Correct

Mark 1.00 out of 1.00

What will be the output of the following python Code-

mystring="India is my country"

print(type(mystring))

a. 'str'

b. str

c. class str

d. <class 'str'> ✓

Your answer is correct.

The correct answer is:
<class 'str'>

◄ Basics of Python

Jump to...

Week1_Coding ►

Started on	Thursday, 28 March 2024, 2:45 PM
State	Finished
Completed on	Sunday, 14 April 2024, 11:23 PM
Time taken	17 days 8 hours
Overdue	15 days 8 hours
Marks	16.00/19.00
Grade	**84.21** out of 100.00

Question **1**

Correct

Mark 1.00 out of 1.00

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

Sample Input

100

Sample Output

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

For example:

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

Answer: (penalty regime: 0 %)

```
amt = int(input())
tax = 0.05 * amt
tip = 0.18 * amt
total = amt + tax + tip
print(f"The tax is {tax:.2f} and the tip is {tip:.2f}, making the total {total:.2f}")
```

	Input	Expected	Got	
✓	100	The tax is 5.00 and the tip is 18.00, making the total 123.00	The tax is 5.00 and the tip is 18.00, making the total 123.00	✓
✓	250	The tax is 12.50 and the tip is 45.00, making the total 307.50	The tax is 12.50 and the tip is 45.00, making the total 307.50	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

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

Hint:

Use ASCII values of C and D.

Input Format:

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

Output Format:

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

```
Input 1:
0
Output 1:
C
```

```
Input 2:
1

Output 1:
D
```

For example:

Input	Result
0	C

Answer: (penalty regime: 0 %)

```
n=int(input())
print(n and 'D' or 'C')
```

	Input	Expected	Got	
✓	0	C	C	✓

	Input	Expected	Got	
✓	1	D	D	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Incorrect

Mark 0.00 out of 1.00

Write a python program that takes a integer between 0 and 15 as input and displays the number of '1' s in its binary form.(Hint:use python bitwise operator.

Sample Input

3

Sample Output:

2

Explanation:

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

For example:

Input	Result
3	2

Answer: (penalty regime: 0 %)

```
n=int(input())
d1=n&
```

Syntax Error(s)

```
  File "__tester__.python3", line 2
    d1=n&
         ^
SyntaxError: invalid syntax
```

Incorrect

Marks for this submission: 0.00/1.00.

Question **4**

Not answered

Mark 0.00 out of 1.00

Pretend that you have just opened a new savings account that earns 4 percent interest per year. The interest that you earn is paid at the end of the year, and is added to the balance of the savings account. Write a program that begins by reading the amount of money deposited into the account from the user. Then your program should compute and display the amount in the savings account after 1, 2, and 3 years. Display each amount so that it is rounded to 2 decimal places. Sample Input: 10000 Sample Output: Balance as of end of Year 1: $10400.00. Balance as of end of Year 2: $10816.00. Balance as of end of Year 3: $11248.64.

For example:

Input	Result
10000	Balance as of end of Year 1: $10400.00. Balance as of end of Year 2: $10816.00. Balance as of end of Year 3: $11248.64.

Answer: (penalty regime: 0 %)

```
1
```

Question **5**

Correct

Mark 1.00 out of 1.00

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 tried 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

10

Sample Output

True

Explanation:

Since 10 is an even number and a number between 0 and 100, True is printed

For example:

Input	Result
101	False

Answer: (penalty regime: 0 %)

```
a=int(input())
print(a%2==0)
```

	Input	Expected	Got	
✓	56	True	True	✓
✓	101	False	False	✓
✓	-1	False	False	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **6**

Not answered

Mark 0.00 out of 1.00

Note:

Dont use if-else. Operators alone must be used .

A team from the Rotract club had planned to conduct a rally to create awareness among the Coimbatore people to donate blood. They conducted the rally successfully. Many of the Coimbatore people realized it and came forward to donate their blood to nearby blood banks. The eligibility criteria for donating blood are people should be above or equal to 18 and his/ her weight should be above 40. There was a huge crowd and staff in the blood bank found it difficult to manage the crowd. So they decided to keep a system and ask the people to enter their age and weight in the system. If a person is eligible he/she will be allowed inside.

Write a program and feed it to the system to find whether a person is eligible or not.

Input Format:

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

Output Format:

Display True(IF ELIGIBLE)

Display False (if not eligible)

Sample Input

19

45

Sample Output

True

For example:

Input	Result
18 40	False

Answer: (penalty regime: 0 %)

```
1
```

Question **7**

Correct

Mark 1.00 out of 1.00

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

Input format:

Line 1 has the total number of weapons

Line 2 has the total number of Soldiers.

Output Format:

If the battle can be won print True otherwise print False.

Sample Input:

32

43

Sample Output:'

False

For example:

Input	Result
32 43	False

Answer: (penalty regime: 0 %)

```
a=int(input())
b=int(input())
print(a%3==0 and b%2==0)
```

	Input	Expected	Got	
✓	32 43	False	False	✓
✓	273 7890	True	True	✓
✓	800 4590	False	False	✓

	Input	Expected	Got	
✓	6789 32996	True	True	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **8**

Correct

Mark 10.00 out of 10.00

An online retailer sells two products: widgets and gizmos. Each widget weighs 75 grams. Each gizmo weighs 112 grams. Write a program that reads the number of widgets and the number of gizmos from the user. Then your program should compute and display the total weight of the parts.

Sample Input:

10

20

Sample Output:

The total weight of all these widgets and gizmos is 2990 grams.

Answer: (penalty regime: 0 %)

```
a=int(input())
b=int(input())
c=75
d=112
totalweight=(a*c)+(b*d)
print("The total weight of all these widgets and gizmos is",totalweight,"grams.")
```

	Input	Expected	Got	
✓	10 20	The total weight of all these widgets and gizmos is 2990 grams.	The total weight of all these widgets and gizmos is 2990 grams.	✓

Passed all tests! ✓

Correct

Marks for this submission: 10.00/10.00.

Question **9**

Correct

Mark 1.00 out of 1.00

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

Input Given:

N-No of friends

P1,P2,P3 AND P4-No of chocolates

OUTPUT:

"True" if he can buy that packet and "False" if he can't buy that packet.

SAMPLE INPUT AND OUTPUT:

5

25

12

10

9

OUTPUT

True False True False

For example:

Input	Result
5 25 23 20 10	True False True True

Answer: (penalty regime: 0 %)

```
n=int(input())
p1=int(input())
p2=int(input())
p3=int(input())
p4=int(input())
print(p1%n==0,end=" ")
print(p2%n==0,end=" ")
print(p3%n==0,end=' ')
print(p4%n==0,end=' ')

```

	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 **10**

Correct

Mark 1.00 out of 1.00

Write a program that returns the last digit of the given number. Last digit is being referred to the least significant digit i.e. the digit in the ones (units) place in the given number.

The last digit should be returned as a positive number.

For example,

if the given number is 197, the last digit is 7

if the given number is -197, the last digit is 7

For example:

Input	Result
197	7
-197	7

Answer: (penalty regime: 0 %)

```
n=int(input())
b=abs(n)
print(b%10)

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◄ Week2_MCQ

Jump to...

Selection control structures ►

Started on	Tuesday, 16 April 2024, 10:09 PM
State	Finished
Completed on	Tuesday, 16 April 2024, 10:12 PM
Time taken	3 mins
Grade	**11.00** out of 15.00 (**73.33**%)

Question **1**

Correct

Mark 1.00 out of 1.00

What is the output of the below code snippet?

```
num1=100
num2=200
num3=6
if(5>=num3):
    if(num1>100 or num2>150):
        print("1")
elif(num1>=100 and num2>150):
    print("2")
else:
    print("3")
```

a. 1

b. 3

c. 2 ✓

Your answer is correct.

The correct answer is:
2

Question **2**

Incorrect

Mark 0.00 out of 1.00

Ahaana wants to make a fun program , if user enters any number a “Good” or “funny” message will appear . She is confused that which is the most suitable control to be used to make such program. Help her to choose correct option.

a. Nested if

b. If ✗

c. if elif

d. if else

Your answer is incorrect.

The correct answer is:
if else

Question **3**

Correct

Mark 1.00 out of 1.00

What should be the value of num1 and num2 to get the output as "1"?

```
if((num1/num2==5) and (num1+num2)>5):
    print("1")
elif((num1-num2)<=1 or (num1%num2)==0):
    print("2")
else:
    print("3")
```

a. num1=11, num2=2

b. num1=-10,num2=2

c. num1=5, num2=1 ✓

d. num1=0, num2=5

Your answer is correct.

The correct answer is:
num1=5, num2=1

Question **4**

Correct

Mark 1.00 out of 1.00

What is the output of the given below program?

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

a. Compiled Successfully, No Output.

b. Hello

c. **REC** ✓

Your answer is correct.

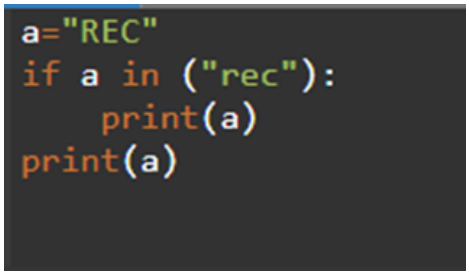
The correct answer is:
REC

Question **5**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code.



a. No output ✗
REC

b. REC

c. false
REC

d. REC
REC

Your answer is incorrect.

The correct answer is:
REC

Question **6**

Correct

Mark 1.00 out of 1.00

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

a. No

b. Yes ✓

Your answer is correct.

The correct answer is:
Yes

Question **7**

Correct

Mark 1.00 out of 1.00

What will be the output for the following code?

```
if False:
    print("1001")
else:
    print("2002")
```

a. 2002 ✓

b. syntax error

c. 1001

Your answer is correct.

The correct answer is:
2002

Question **8**

Correct

Mark 1.00 out of 1.00

Write the output of the following code :

```
y=2
if 2!=y:
 print("H")
else :
 print("K")
```

a. H

b. K ✓

c. Error

d. No output

Your answer is correct.

The correct answer is:
K

Question **9**

Correct

Mark 1.00 out of 1.00

what will be the output for the following question?

```
a, b = 12, 5
if a + b:
   print('True')
else:
  print('False')
```

a. False

b. Error

c. True ✓

Your answer is correct.

The correct answer is:
True

Question **10**

Correct

Mark 1.00 out of 1.00

What is the output of the code given below?

```
a = -10
b = -200
c = 2000
d = 4000
if( a*b >=d):
    if(d>c):
        if(d%c!=0):
            print(11)
        else:
            print(22)
else:
    if(b/a >0):
        if(a<b or d%c!=0):
          print(33)
        else:
          print(44)
```

a. 44 ✓

b. 11

c. 33

d. 22

Your answer is correct.

The correct answer is:
44

Question **11**

Correct

Mark 1.00 out of 1.00

With what extension are the python files saved?

a. .python

b. .pyn

c. .py ✓

d. .p

Your answer is correct.

The correct answer is:
.py

Question **12**

Correct

Mark 1.00 out of 1.00

Leading whitespace (spaces and tabs) at the beginning of a statement is called _____.

a. **orientation**

b. **indentation** ✓

c. **None of the above**

d. **Iteration**

Your answer is correct.

The correct answer is:
indentation

Question **13**

Incorrect

Mark 0.00 out of 1.00

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

a. absent

b. Runtime Error

c. compilation error ✗

d. present

Your answer is incorrect.

The correct answer is:
present

Question **14**

Correct

Mark 1.00 out of 1.00

What is the output of the given below program?

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

a. Error

b. Hello

c. Know Program ✓

d. Compiled Successfully, No Output

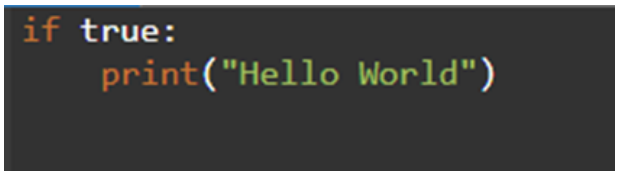
Your answer is correct.

The correct answer is:
Know Program

Question **15**

Incorrect

Mark 0.00 out of 1.00



a. Name Error

b. Hello World ✗

c. No output

Your answer is incorrect.

The correct answer is:
Name Error

◄ Selection control structures

Jump to...

Week3_coding ►

Started on	Thursday, 18 April 2024, 12:58 PM
State	Finished
Completed on	Thursday, 25 April 2024, 2:53 PM
Time taken	7 days 1 hour
Overdue	5 days 1 hour
Marks	10.00/10.00
Grade	**100.00** out of 100.00

Question **1**

Correct

Mark 1.00 out of 1.00

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

1^1 + 7^2 +5^3 = 175

Example Input:

123

Output:

No

For example:

Input	Result
175	Yes
123	No

Answer: (penalty regime: 0 %)

```
number=int(input())
length=len(str(number))
temp=number
sum=0
rem=0
while temp>0:
    rem=temp%10
    sum=sum+int(rem**length)
    temp=temp//10
    length=length-1
if sum==number:
    print("Yes")
else:
    print("No")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Write a program to find 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: 0 %)

```
n=int(input())
sum=0
j=0
for i in range(0,n):
    sum=sum+(10**i)
    j=j+sum
print(j)
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

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:

Yes

Example Input:

26

Output:

No

For example:

Input	Result
24	Yes

Answer: (penalty regime: 0 %)

```
n=int(input())
n=n+1
s=int(n**0.5)
if(s*s==n):
    print("Yes")
else:
    print("No")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

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:

13

Output:

No

Answer: (penalty regime: 0 %)

```
n=int(input())
d=int(n/2)
c=0
for i in range(1,10):
     for j in range(1,10):
         if(i*j==n):
              print("Yes")
              c=c+1
              break
         if(c!=0):
              break
if(c==0):
    print("No")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

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

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

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

Example1: if the given number N is 7, the method must return 2

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

For example:

Input	Result
7	2
10	1

Answer: (penalty regime: 0 %)

```
n=int(input())
a=0
for i in range(2,n):
    if n%i==0:
       a=1
       break
if a==0:
      print("2")
else:
    print("1")

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **6**

Correct

Mark 1.00 out of 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! = 4 x 3 x 2 x 1 = 24

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

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

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

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

Assumptions for this program:

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: 0 %)

```
n=int(input())
fac=1
for i in range(1,n+1):
    fac=fac*i
print(fac)

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **7**

Correct

Mark 1.00 out of 1.00

Write a program to find the count of unique digits in a given number N. The number will be passed to the program as an input of type int.

Assumption: The input number will be a positive integer number >= 1 and <= 25000.

For e.g.

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

If the given number is 1015, the program should return 3 because there are 3 unique digits in this number, '1', '0', and '5'.

For example:

Input	Result
292	2
1015	3

Answer: (penalty regime: 0 %)

```
a=input()
d={}
for i in a:
    if i not in d:
        d[i]=0
print(len(d.keys()))
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **8**

Correct

Mark 1.00 out of 1.00

Write a program to find the count of non-repeated digits in a given number N. The number will be passed to the program as an input of type int.

Assumption: The input number will be a positive integer number >= 1 and <= 25000.

Some examples are as below.

If the given number is 292, the program should return 1 because there is only 1 non-repeated digit '9' in this number

If the given number is 1015, the program should return 2 because there are 2 non-repeated digits in this number, '0', and '5'.

If the given number is 108, the program should return 3 because there are 3 non-repeated digits in this number, '1', '0', and '8'.

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

For example:

Input	Result
292	1
1015	2
108	3
22	0

Answer: (penalty regime: 0 %)

```
a=input()
d={}
for i in a:
    if i in d:
        d[i]=1
    else:
        d[i]=0
l=d.keys()
c=0
for i in l:
    if d[i]==0:
       c+=1
print(c)
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **9**

Correct

Mark 1.00 out of 1.00

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

Input Format:

Integer input from stdin.

Output Format:

Perfect square greater than N.

Example Input:

10

Output:

16

Answer: (penalty regime: 0 %)

```
import math
n=int(input())
while True:
    n=n+1
    s=int(math.sqrt(n))
    if s*s==n:
        print(n)
        break
```

	Input	Expected	Got	
✓	10	16	16	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **10**

Correct

Mark 1.00 out of 1.00

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

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

NOTE: Fibonacci series looks like –

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, . . . and so on.

i.e. Fibonacci series starts with 0 and 1, and continues generating the next number as the sum of the previous two numbers.

• first Fibonacci number is 0,

• second Fibonacci number is 1,

• third Fibonacci number is 1,

• fourth Fibonacci number is 2,

• fifth Fibonacci number is 3,

• sixth Fibonacci number is 5,

• seventh Fibonacci number is 8, and so on.

For example:

Input	Result
1	0
4	2
7	8

Answer: (penalty regime: 0 %)

```
n=int(input())
a=-1
b=1
for i in range(1,n+1):
      c=a+b
      a=b
      b=c
print(c)
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◄ Week4_mcq

Jump to...

Strings ►

Started on	Thursday, 23 May 2024, 6:56 AM
State	Finished
Completed on	Thursday, 23 May 2024, 7:11 AM
Time taken	14 mins 19 secs
Grade	**5.00** out of 15.00 (**33.33**%)

Question **1**

Correct

Mark 1.00 out of 1.00

What is the output of the following Code?

print(ord('D'))

Answer: 68 ✓

The correct answer is: 68

Question **2**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following?

```
i = 0
while i < 3:
        print(i)
        i += 1
else:
        print(0)
```

- a. 0 1 2 ✗
- b. 0 1 2 3 0
- c. 0 1 2 0
- d. Error

Your answer is incorrect.

The correct answer is:
0 1 2 0

Question **3**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code?

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

a. arvjayakumar ✕

b. None

c. Error

d. 0 1 2 3 ... 12

1.

Your answer is incorrect.

The correct answer is:
Error

Question **4**

Incorrect

Mark 0.00 out of 1.00

What will be the output of below Python code?

```
str1="Information"
print(str1[2:8])
```

Answer: formation ✕

The correct answer is: format

Question **5**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following Code?

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

Answer: 6/4 ✕

The correct answer is: str1

Question **6**

Correct

Mark 1.00 out of 1.00

What is the output of the following code?

```
print('Ab!2'.swapcase())
```

a. aB1@

b. aB!2 ✓

c. ab12

d. AB!@

Your answer is correct.

The correct answer is:
aB!2

Question **7**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code?

```
str1='vijayakumar'
str2='.'
str3='---'
print(str1[-1:])
```

a. 'r'

b. None of the above

c. ramukayajiv ✗

d. vijayakuma

Your answer is incorrect.

The correct answer is:
'r'

Question **8**

Incorrect

Mark 0.00 out of 1.00

What arithmetic operators cannot be used with strings in Python?

a. All of the mentioned

b. -

c. +

d. * ✗

Your answer is incorrect.

The correct answer is:
-

Question **9**

Incorrect

Mark 0.00 out of 1.00

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

Select one:

True

False ✗

The correct answer is 'True'.

Question **10**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code?

```
print('ab cd ef'.title())
```

a. None of the mentioned

b. Ab cd ef ✗

c. Ab Cd Ef

d. Ab cd eF

Your answer is incorrect.

The correct answer is:
Ab Cd Ef

Question **11**

Incorrect

Mark 0.00 out of 1.00

Which of the following is False?

a. capitalize() function in string is used to return a string by converting the whole given string into uppercase.

b. lower() function in string is used to return a string by converting the whole given string into lowercase.

c. None of the mentioned ✕

d. String is immutable.

Your answer is incorrect.

The correct answer is:
capitalize() function in string is used to return a string by converting the whole given string into uppercase.

Question **12**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code?

```
line =  "What will have so will"
L = line.split('a')
for i in L:
    print(i, end=' ')
```

a. ['What', 'will', 'have', 'so', 'will'] ✕

b. ['Wh', 't will h', 've so will']

c. What will have so will

d. Wh t will h ve so will

Your answer is incorrect.

The correct answer is:
Wh t will h ve so will

Question **13**

Correct

Mark 1.00 out of 1.00

What is the output of the following code?

```
str1="vijay"
for i in str1:
  print(i, end="")
```

- a. vijay ✓
- b. 01234
- c. No output
- d. None of the above

Your answer is correct.

The correct answer is:
vijay

Question **14**

Correct

Mark 1.00 out of 1.00

What is the index value of ‘i’ in string “Learning”

- a. 3
- b. 7
- c. 5 ✓
- d. 6

Your answer is correct.

The correct answer is:
5

Question **15**

Correct

Mark 1.00 out of 1.00

What will be the output of below Python code?

```
str1="poWer"
str1.upper()
print(str1)
```

Answer: POWER ✓

str1.upper() returns the uppercase of whole string str1. However,it doesnot change the string str1. So, output will be the original str1.

The correct answer is: poWer

◄ Strings

Jump to...

Week5_Coding ►

Started on	Thursday, 30 May 2024, 1:42 PM
State	Finished
Completed on	Saturday, 1 June 2024, 1:42 PM
Time taken	2 days
Marks	7.00/10.00
Grade	**70.00** out of 100.00

Question **1**

Correct

Mark 1.00 out of 1.00

Complete the program to count frequency of each element of an array. Frequency of a particular element will be printed once.

Sample Test Cases

Test Case 1

Input

7
23
45
23
56
45
23
40

Output

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

Answer: (penalty regime: 0 %)

```
n=int(input())
a=[]
u=[]
c=0
for i in range(n):
    t=int(input())
    a.append(t)
for i in a:
    if i not in u:
        u.append(i)
for i in u:
    print(i,"occurs",a.count(i),"times")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Write a Python program to check if a given list is strictly increasing or not. Moreover, If removing only one element from the list results in a strictly increasing list, we still consider the list true

Input:

n : Number of elements

List1: List of values

Output

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

Sample Test Case

Input

7

1

2

3

0

4

5

6

Output

True

Answer: (penalty regime: 0 %)

```
n=int(input())
a=[]
for i in range(n):
    t=int(input())
    a.append(t)
b=a.sort()
if b==a:
    print("False")
else:
    print("True")

```

	Input	Expected	Got	
✓	7 1 2 3 0 4 5 6	True	True	✓

	Input	Expected	Got	
✓	4 2 1 0 -1	True	True	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Output is a merged array without duplicates.

Input Format

N1 - no of elements in array 1

Array elements for array 1

N2 - no of elements in array 2

Array elements for array2

Output Format

Display the merged array

Sample Input 1

5

1

2

3

6

9

4

2

4

5

10

Sample Output 1

1 2 3 4 5 6 9 10

Answer: (penalty regime: 0 %)

```
a=[]
n1=int(input())
for i in range(n1):
    t=int(input())
    if t not in a:
        a.append(t)
n2=int(input())
for i in range(n2):
    temp=int(input())
    if temp not in a:
        a.append(temp)
for i in sorted(a):
    print(i,end=" ")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

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

Sample Test Cases

Test Case 1

Input

1
3
4
5
6
7
8
9
10
11
2

Output

ITEM to be inserted:2
After insertion array is:
1
2
3
4
5
6
7
8
9
10
11

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
88
99
110
120

Answer: (penalty regime: 0 %)

```
1 a=[]
```

```
a=[]
for i in range(11):
    t=int(input())
    a.append(t)
b=sorted(a)
print("ITEM to be inserted:",a[10],sep="")
print("After insertion array is:")
for i in range (11):
    print(b[i])
```

	Input	Expected	Got	
✓	1 3 4 5 6 7 8 9 10 11 2	ITEM to be inserted:2 After insertion array is: 1 2 3 4 5 6 7 8 9 10 11	ITEM to be inserted:2 After insertion array is: 1 2 3 4 5 6 7 8 9 10 11	✓
✓	11 22 33 55 66 77 88 99 110 120 44	ITEM to be inserted:44 After insertion array is: 11 22 33 44 55 66 77 88 99 110 120	ITEM to be inserted:44 After insertion array is: 11 22 33 44 55 66 77 88 99 110 120	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Not answered

Mark 0.00 out of 1.00

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 reordered.

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]=4 is the pivot between the two subarrays.
- The index of the pivot is 3.

Constraints

- $3 \leq n \leq 10^5$
- $1 \leq arr[i] \leq 2 \times 10^4$, where $0 \leq i < n$
- It is guaranteed that 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[i], where $0 \leq i < n$.

Sample Case 0

Sample Input 0

4

1

2

3

3

Sample Output 0

2

Explanation 0

- The sum of the first two elements, 1+2=3. The value of the last element is 3.
- Using zero based indexing, arr[2]=3 is the pivot between the two subarrays.
- The index of the pivot is 2.

Sample Case 1

Sample Input 1

3

1

2

1

Sample Output 1

1

Explanation 1

- The first and last elements are equal to 1.
- Using zero based indexing, arr[1]=2 is the pivot between the two subarrays.
- The index of the pivot is 1.

For example:

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

Answer: (penalty regime: 0 %)

```
1
```

Question **6**

Not answered

Mark 0.00 out of 1.00

Given an array A of sorted integers and another non negative integer k, find if there exists 2 indices i and j such that A[i] - A[j] = k, i != j.

Input Format

1. First line is number of test cases T. Following T lines contain:
2. N, followed by N integers of the array
3. The non-negative integer k

Output format

Print 1 if such a pair exists and 0 if it doesn't.

Example

Input

1

3

1

3

5

4

Output:

1

Input

1

3

1

3

5

99

Output

0

For example:

Input	Result
1 3 1 3 5 4	1
1 3 1 3 5 99	0

Answer: (penalty regime: 0 %)

```
1
```

Question **7**

Not answered

Mark 0.00 out of 1.00

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

Input:

m : row size

n: column size

list1 and list 2 : Two lists

Output

Zipped List : List which combined both list1 and list2

Sample test case

Sample input

2

2

1

3

5

7

2

4

6

8

Sample Output

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

Answer: (penalty regime: 0 %)

```
1
```

Question **8**

Correct

Mark 1.00 out of 1.00

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

Input Format:

First line take an Integer input from stdin which is array length n.

Second line take n Integers which is inputs of array.

Output Format:

Print the Distinct Elements in Array in single line which is space Separated

Example Input:

5

1

2

2

3

4

Output:

1 2 3 4

Example Input:

6

1

1

2

2

3

3

Output:

1 2 3

For example:

Input	Result
5 1 2 2 3 4	1 2 3 4
6 1 1 2 2 3 3	1 2 3

Answer: (penalty regime: 0 %)

```
a=[]
n=int(input())
for i in range(n):
    t=int(input())
    if t not in a:
        a.append(t)
```

```
for i in a:
    print(i,end=" ")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **9**

Correct

Mark 1.00 out of 1.00

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

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

5
6
5
7

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

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

Sample Test Cases

Test Case 1

Input

4
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.

Answer: (penalty regime: 0 %)

```
a=[]
n=int(input())
for i in range(n):
    t=int(input())
    a.append(t)
x=int(input())
for i in range(len(a)):
    if a[i] is x:
        print(x,f"is present at location {i+1}.")
if x not in a:
    print(x,"is not present in the array.")
else:
    print(x,"is present",a.count(x),"times in the array.")

```

	Input	Expected	Got	
✓	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 is present at location 1. 5 is present at location 3. 5 is present 2 times in the array.	✓
✓	5 67 80 45 97 100 50	50 is not present in the array.	50 is not present in the array.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **10**

Correct

Mark 1.00 out of 1.00

Determine the factors of a number (i.e., all positive integer values that evenly divide into a number) and then return the p^{th} element of the list, sorted ascending. If there is no p^{th} element, return 0.

Example

n = 20

p = 3

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

Constraints

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

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

The first line contains an integer n, the number to factor.

The second line contains an integer p, the 1-based index of the factor to return.

Sample Case 0

Sample Input 0

10

3

Sample Output 0

5

Explanation 0

Factoring n = 10 results in {1, 2, 5, 10}. Return the p = 3^{rd} factor, 5, as the answer.

Sample Case 1

Sample Input 1

10

5

Sample Output 1

0

Explanation 1

Factoring n = 10 results in {1, 2, 5, 10}. There are only 4 factors and p = 5, therefore 0 is returned as the answer.

Sample Case 2

Sample Input 2

1

1

Sample Output 2

1

Explanation 2

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

For example:

Input	Result
10 3	5
10 5	0
1 1	1

Answer: (penalty regime: 0 %)

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

	Input	Expected	Got	
✓	10 3	5	5	✓
✓	10 5	0	0	✓
✓	1 1	1	1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◄ Week6_MCQ

Jump to...

Tuples ►

Started on	Thursday, 6 June 2024, 1:02 PM
State	Finished
Completed on	Thursday, 6 June 2024, 2:18 PM
Time taken	1 hour 16 mins
Marks	5.00/5.00
Grade	**100.00** out of 100.00

Question **1**

Correct

Mark 1.00 out of 1.00

The **DNA sequence** is composed of a series of nucleotides abbreviated as `'A'`, `'C'`, `'G'`, and `'T'`.

- For example, `"ACGAATTCCG"` is a **DNA sequence**.

When studying **DNA**, it is useful to identify repeated sequences within the DNA.

Given a string `s` that represents a **DNA sequence**, return all the **`10`-letter-long** sequences (substrings) that occur more than once in a DNA molecule. You may return the answer in **any order**.

Example 1:

```
Input: s = "AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT"
Output: ["AAAAACCCCC","CCCCCAAAAA"]
```

Example 2:

```
Input: s = "AAAAAAAAAAAAA"
Output: ["AAAAAAAAAA"]
```

For example:

Input	Result
AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC CCCCCAAAAA

Answer: (penalty regime: 0 %)

```
s=input()
check=set()
repeat=set()
for i in range(len(s)-9):
    sliced=s[i:i+10]
    tpl=tuple(sliced)
    if tpl in check:
        repeat.add(tpl)
    else:
        check.add(tpl)
for i in repeat:
    print("".join(i))
```

	Input	Expected	Got	
✓	AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC CCCCCAAAAA	AAAAACCCCC CCCCCAAAAA	✓
✓	AAAAAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAA	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **2**

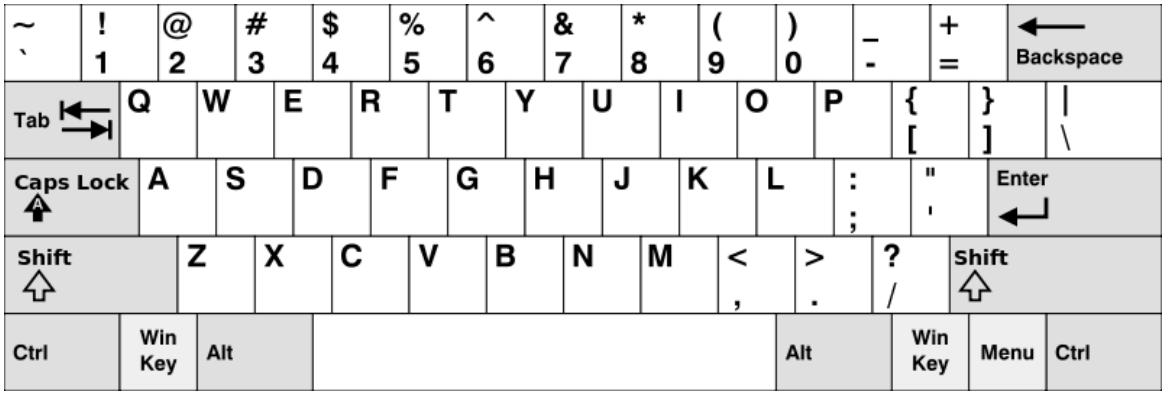
Correct

Mark 1.00 out of 1.00

Given an array of strings `words`, return *the words that can be typed using letters of the alphabet on only one row of American keyboard like the image below*.

In the **American keyboard**:

- the first row consists of the characters `"qwertyuiop"`,
- the second row consists of the characters `"asdfghjkl"`, and
- the third row consists of the characters `"zxcvbnm"`.



Example 1:

```
Input: words = ["Hello","Alaska","Dad","Peace"]
Output: ["Alaska","Dad"]
```

Example 2:

```
Input: words = ["omk"]
Output: []
```

Example 3:

```
Input: words = ["adsdf","sfd"]
Output: ["adsdf","sfd"]
```

For example:

Input	Result
4 Hello Alaska Dad Peace	Alaska Dad
2 adsfd afd	adsfd afd

Answer: (penalty regime: 0 %)

```
n=int(input())
a=[]
for i in range(n):
    t=input()
    a.append(t)
row1=set("qwertyuiop")
row2=set("asdfghjkl")
row3=set("zxcvbnm")
flag=0
for j in a:
     lower=set(j.lower())
     if lower <= row1 or lower <= row2 or lower <= row3:
         print(j)
```

```
        flag=1
if flag==0:
    print("No words")

```

	Input	Expected	Got	
✓	4 Hello Alaska Dad Peace	Alaska Dad	Alaska Dad	✓
✓	1 omk	No words	No words	✓
✓	2 adsfd afd	adsfd afd	adsfd afd	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

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

Given a string text of words separated by a single space (no leading or trailing spaces) and a string brokenLetters of all distinct letter keys that are broken, return the number of words in text you can fully type using this keyboard.

Example 1:

Input: text = "hello world", brokenLetters = "ad"

Output:

1

Explanation: We cannot type "world" because the 'd' key is broken.

For example:

Input	Result
hello world ad	1
Faculty Upskilling in Python Programming ak	2

Answer: (penalty regime: 0 %)

```
a=set(input())
b=list(input())
count=0
for i in a:
    if i in b:
        count=count+1
print(count)
```

	Input	Expected	Got	
✓	hello world ad	1	1	✓
✓	Welcome to REC e	1	1	✓
✓	Faculty Upskilling in Python Programming ak	2	2	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Write a program to eliminate the common elements in the given 2 arrays and print only the non-repeating elements and the total number of such non-repeating elements.

Input Format:

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

The next two lines contain the space-separated integer arrays to be compared.

Sample Input:

5 4

1 2 8 6 5

2 6 8 10

Sample Output:

1 5 10

3

Sample Input:

5 5

1 2 3 4 5

1 2 3 4 5

Sample Output:

NO SUCH ELEMENTS

For example:

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: 0 %)

```
a=input()
b=input()
c=input()
b=b.split()
c=c.split()
s=[]
d=b+c
flag=0
for i in d:
    if i not in b:
        s.append(i)
        flag=1
    elif i not in c:
        s.append(i)
        flag=1
if flag==0:
    print("NO SUCH ELEMENTS")
else:
    for i in s:
        print(i,end=" ")
    print()
    print(len(s))
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

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

Examples:

Input: str = "01010101010"

Output: Yes

Input: str = "REC101"

Output: No

For example:

Input	Result
01010101010	Yes
010101 10101	No

Answer: (penalty regime: 0 %)

```
n=input()
flag=0
for i in n:
    if i=="0" or i=="1":
        continue
    else:
        flag=1
if flag==0:
    print("Yes")
else:
    print("No")

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◄ Week7_MCQ

Jump to...

Dictionary ►

Started on	Wednesday, 19 June 2024, 6:11 PM
State	Finished
Completed on	Wednesday, 19 June 2024, 8:25 PM
Time taken	2 hours 14 mins
Marks	2.00/5.00
Grade	**40.00** out of 100.00

Question **1**

Incorrect

Mark 0.00 out of 1.00

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

Points Letters

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

2 D and G

3 B, C, M and P

4 F, H, V, W and Y

5 K

8 J and X

10 Q and Z

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

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

Sample Input

REC

Sample Output

REC is worth 5 points.

For example:

Input	Result
REC	REC is worth 5 points.

Answer: (penalty regime: 0 %)

```
def scrabble_score(word):
 letter_points= {
    'A': 1, 'B': 3, 'C': 3, 'D': 2, 'E': 1, 'F': 4, 'G': 2,
    'H': 4, 'I': 1, 'J': 8, 'K': 5, 'L': 1, 'M': 3, 'N': 1,
    'O': 1, 'P': 3, 'Q': 10, 'R': 1, 'S': 1, 'T': 1, 'U': 1,
    'V': 4, 'W': 4, 'X': 8, 'Y': 4, 'Z': 1
     }
     score=sum(letter_points.get(letter.upper(),for letter in word)
     return score
word=input()
score=scrabble_score(word)
print(f"{word} is worth {score} points.")

```

Syntax Error(s)

```
Sorry: IndentationError: unexpected indent (__tester__.python3, line 8)
```

Incorrect

Marks for this submission: 0.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

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

Input : test_dict = {'Gfg' : [6, 7, 4], 'best' : [7, 6, 5]}

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

Explanation : Sorted by sum, and replaced.

Input : test_dict = {'Gfg' : [8,8], 'best' : [5,5]}

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

Explanation : Sorted by sum, and replaced.

Sample Input:

2

Gfg 6 7 4

Best 7 6 5

Sample Output

Gfg 17

Best 18

For example:

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

Answer: (penalty regime: 0 %)

```
n=int(input())
test_dict={}
for _ in range(n):
    key, *values=input().split()
    test_dict[key]=list(map(int,values))
sorted_dict={key:sum(values)for key,values in sorted(test_dict.items(),key=lambda item:sum(item[1]))}
for key,value in sorted_dict.items():
    print(key,value)
```

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

	Input	Expected	Got	
✓	2 Gfg 6 6 Best 5 5	Best 10 Gfg 12	Best 10 Gfg 12	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

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

Examples:

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

Output : John

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

Sample Input:

10
John
John
Johny
Jamie
Jamie
Johny
Jack
Johny
Johny
Jackie

Sample Output:

Johny

Answer: (penalty regime: 0 %)

```
n=int(input())
a=[]
for i in range(n):
    t=input()
    a.append(t)
b=set(a)
b=list(a)
b=sorted(b)
s={}
for i in b:
```

```
for i in b:
    name=i
    value=a.count(i)
    result=dict([(name,value)])
    s.update(result)
say=max(s,key=s.get)
print(say)
```

	Input	Expected	Got	
✓	10 John John Johny Jamie Jamie Johny Jack Johny Johny Jackie	Johny	Johny	✓
✓	6 Ida Ida Ida Kiruba Kiruba Kiruba	Ida	Ida	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Incorrect

Mark 0.00 out of 1.00

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

1.Identify the student with the highest average score

2.Identify the student who as the highest Assignment marks

3.Identify the student with the Lowest lab marks

4.Identify the student with the lowest average score

Note:

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

Sample input:

4

James 67 89 56

Lalith 89 45 45

Ram 89 89 89

Sita 70 70 70

Sample Output:

Ram

James Ram

Lalith

Lalith

For example:

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

Answer: (penalty regime: 0 %)

```
def compute_statistics(student_dict):
    average_scores = {name: sum(marks) / len(marks) for name, marks in student_dict.items()}
    max_avg_score = max(average_scores.values())
    min_avg_score = min(average_scores.values())

    highest_avg_students = [name for name, avg_score in average_scores.items() if avg_score == max_avg_scc
    highest_assignment_students = [name for name, marks in student_dict.items() if marks[1] == max(student
    lowest_lab_students = [name for name, marks in student_dict.items() if marks[2] == min(student_dict.va
    lowest_avg_students = [name for name, avg_score in average_scores.items() if avg_score == min_avg_scor

    return highest_avg_students, highest_assignment_students, lowest_lab_students, lowest_avg_students
```

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

Your code must pass all tests to earn any marks. Try again.

Incorrect

Marks for this submission: 0.00/1.00.

Question **5**

Not answered

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

Example 1:

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

Output: ["sweet","sour"]

Example 2:

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

Output: ["banana"]

Constraints:

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

s1 and s2 consist of lowercase English letters and spaces.

s1 and s2 do not have leading or trailing spaces.

All the words in s1 and s2 are separated by a single space.

Note:

Use dictionary to solve the problem

For example:

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

Answer: (penalty regime: 0 %)

```
1
```

◄ Week8_MCQ

Jump to...

Functions ►

Started on	Thursday, 23 May 2024, 6:56 AM
State	Finished
Completed on	Thursday, 23 May 2024, 7:11 AM
Time taken	14 mins 19 secs
Grade	**5.00** out of 15.00 (**33.33**%)

Question **1**

Correct

Mark 1.00 out of 1.00

What is the output of the following Code?

print(ord('D'))

Answer: 68 ✓

The correct answer is: 68

Question **2**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following?

```
i = 0
while i < 3:
        print(i)
        i += 1
else:
        print(0)
```

- a. 0 1 2 ✗
- b. 0 1 2 3 0
- c. 0 1 2 0
- d. Error

Your answer is incorrect.

The correct answer is:
0 1 2 0

Question **3**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code?

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

a. arvjayakumar ✕

b. None

c. Error

d. 0 1 2 3 ... 12

1.

Your answer is incorrect.

The correct answer is:
Error

Question **4**

Incorrect

Mark 0.00 out of 1.00

What will be the output of below Python code?

```
str1="Information"
print(str1[2:8])
```

Answer: formation ✕

The correct answer is: format

Question **5**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following Code?

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

Answer: 6/4 ✕

The correct answer is: str1

Question **6**

Correct

Mark 1.00 out of 1.00

What is the output of the following code?

```
print('Ab!2'.swapcase())
```

a. aB1@

b. aB!2 ✓

c. ab12

d. AB!@

Your answer is correct.

The correct answer is:
aB!2

Question **7**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code?

```
str1='vijayakumar'
str2='.'
str3='---'
print(str1[-1:])
```

a. 'r'

b. None of the above

c. ramukayajiv ✗

d. vijayakuma

Your answer is incorrect.

The correct answer is:
'r'

Question **8**

Incorrect

Mark 0.00 out of 1.00

What arithmetic operators cannot be used with strings in Python?

a. All of the mentioned

b. -

c. +

d. * ✗

Your answer is incorrect.

The correct answer is:
-

Question **9**

Incorrect

Mark 0.00 out of 1.00

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

Select one:

True

False ✗

The correct answer is 'True'.

Question **10**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code?

```
print('ab cd ef'.title())
```

a. None of the mentioned

b. Ab cd ef ✗

c. Ab Cd Ef

d. Ab cd eF

Your answer is incorrect.

The correct answer is:
Ab Cd Ef

Question **11**

Incorrect

Mark 0.00 out of 1.00

Which of the following is False?

a. capitalize() function in string is used to return a string by converting the whole given string into uppercase.

b. lower() function in string is used to return a string by converting the whole given string into lowercase.

c. None of the mentioned ✕

d. String is immutable.

Your answer is incorrect.

The correct answer is:
capitalize() function in string is used to return a string by converting the whole given string into uppercase.

Question **12**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code?

```
line =  "What will have so will"
L = line.split('a')
for i in L:
    print(i, end=' ')
```

a. ['What', 'will', 'have', 'so', 'will'] ✕

b. ['Wh', 't will h', 've so will']

c. What will have so will

d. Wh t will h ve so will

Your answer is incorrect.

The correct answer is:
Wh t will h ve so will

Question **13**

Correct

Mark 1.00 out of 1.00

What is the output of the following code?

```
str1="vijay"
for i in str1:
  print(i, end="")
```

- a. vijay ✓
- b. 01234
- c. No output
- d. None of the above

Your answer is correct.

The correct answer is:
vijay

Question **14**

Correct

Mark 1.00 out of 1.00

What is the index value of ‘i’ in string “Learning”

- a. 3
- b. 7
- c. 5 ✓
- d. 6

Your answer is correct.

The correct answer is:
5

Question **15**

Correct

Mark 1.00 out of 1.00

What will be the output of below Python code?

```
str1="poWer"
str1.upper()
print(str1)
```

Answer: POWER ✓

str1.upper() returns the uppercase of whole string str1. However,it doesnot change the string str1. So, output will be the original str1.

The correct answer is: poWer

◄ Strings

Jump to...

Week5_Coding ►