RAJALAKSHMI ENGINEERING COLLEGE

RAJALAKSHMI NAGAR, THANDALAM – 602 105



GE23231 PROGRAMMING USING PYTHON

Record Note Book

Name: AARTHI V

Register. No: 230601002

Year: I

Semester: II

Department: CIVIL ENGINEERING

Academic Year: 2023-2024

print()

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Experiments based on Variables, Datatypes in Python.</u> / <u>Week1 Quiz</u>

Started on	Thursday, 14 March 2024, 11:10 AM
State	Finished
Completed on	Thursday, 14 March 2024, 11:12 AM
	1 min 39 secs
Grade	10.00 out of 10.00 (100 %)
Question 1	
Correct	
Mark 1.00 out of 1.00	
Answer: float(input	
Question 2 Correct	
Mark 1.00 out of 1.00	
Which of the follow a. scanf() b. val() c. print() d. printf()	ing <u>functions</u> is a built-in function in python language?
Your answer is correct	

/24, 11:07 AM	Week1_Quiz: Attempt review REC-PS
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. int and int	
c. float and str	
od. No output	
Your answer is correct.	
The correct answer is:	
int and str	
Question 4	
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. class str	
○ b. 'str'	
○ c. str	
Your answer is correct.	
The correct answer is:	
<class 'str'=""></class>	

Question 5	
Correct	
Mark 1.00 out of 1.00	

Who developed the Python language?

- a. Von Neumann
- b. Guido Van Rossum
- c. Bill Gates
- d. Dennis Ritchie

Your answer is correct.

The correct answer is: Guido Van Rossum

Question 6

Correct

Mark 1.00 out of 1.00

Which of the following declarations is incorrect in python language?

- a. x,y,z,p = 5000, 6000, 7000, 8000
 ✓
- b. $x_y_z_p = 5,000,000$
- o. xyzp = 5000 6000 7000 8000
- \bigcirc d. xyzp = 5,000,000

Your answer is correct.

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

9/24, 11:07 AM	Week1_Quiz: Attempt review REC-PS	
Question 7		
Correct		
Mark 1.00 out of 1.00		
Which one of the following is the correct extension of the Pyth	on file?	
apython		
○ bp		
○ ccpp		
Your answer is correct.		
The correct answer is:		
.py		
Question 8		
Correct		
Mark 1.00 out of 1.00		
What do we use to define a block of code in Python language?		
a. Parenthesis		
O b. Curly brace		
○ c. Key		
■ d. Indentation ✓		
Your answer is correct.		

The correct answer is:

Indentation

Question 9	
Correct	
Mark 1.00 out of 1.00	
What will be the output of the following code snippet?	
print(type(5 / 2))	
○ a. str	
○ c. obj	
O d. int	
Your answer is correct.	
The correct answer is:	
float	
Question 10	
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. No output	
b. 31 ✓	
13	
O c. 31	
3 1	
O d. 13	
3 1	
Your answer is correct.	
The correct answer is:	
31	
13	
→ Basics of Python	
Jump to	

Week1_Coding ►

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Operators and Formatting Output.</u> / <u>Week2 MCQ</u>

Started on	Sunday, 24 March 2024, 8:58 PM
State	Finished
Completed on	Sunday, 24 March 2024, 9:21 PM
Time taken	23 mins 31 secs
Grade	12.00 out of 15.00 (80 %)
Question 1 Correct Mark 1.00 out of 1.00	

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

■ a. 5var ✓

O b. var_name

O c. _var

d. var11

Your answer is correct.

The correct answer is:

5var

9/24, 11:07 AM	Week2_MCQ: Attempt review REC-PS
Question 2	
Correct	
Mark 1.00 out of 1.00	
What is the output of the following expression?	
z=2	
z**=3	
print(z)	
○ a. Error	
○ b. 3	
⊚ c. 8 ✓	
○ d. 0	
u. v	
Your answer is correct.	
The correct answer is:	
8	
Question 3	
Correct	
Mark 1.00 out of 1.00	
What will be the output of the following statement?	
print(15 + 20 / 5 + 3 * 2 - 1)	
a. 19.0	

- O b. 19
- O c. 12
- d. 24.0
 ✓

Your answer is correct.

The correct answer is: 24.0

0/21, 11.01 / uvi	Wooke_week, womperonew Week
Question 4	
Correct	
Mark 1.00 out of 1.00	

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

- a. 31
- o b. 7
- O c. 50
- d. 79
 ✓

Your answer is correct.

The correct answer is:

79

Question **5**Incorrect

Mark 0.00 out of 1.00

In the Python statement x = a + 6 - c-d:

- a and b are _____
- a + 6 c-d is _____
- a. operands, an equation
- Ob. operands, an expression
- operators, a statement X
- d. terms, a group

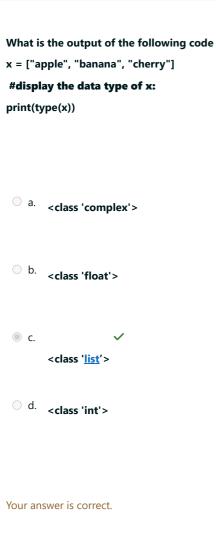
Your answer is incorrect.

The correct answer is: operands, an expression

1	9/24, 11:07 AM	Week2_MCQ: Attempt review REC-PS
	Question 6	
	Correct	
	Mark 1.00 out of 1.00	
	What is the value of the expression	
	print(100 / 25)	
	print(100//25)	
	a. 4.0 ✓	
	4	
	O b. 4	
	4	
	oc. 4.0	
	4.00	
	O d. 4.0	
	4.0	
	Your answer is correct.	
	The correct answer is:	
	4.0	
	4	
	Question 7	
	Incorrect	
	Mark 0.00 out of 1.00	
	What is the two's complement of -44?	
	0	
	a. 1011011	
	⊚ b. 10110011 ×	
	oc. 11101011	
	od. 11010100	
	Your answer is incorrect.	

The correct answer is: 11010100

Question 8	
Correct	
Mark 1.00 out of 1.00	



The correct answer is:

<class '<u>list</u>'>

Question 9	
Correct	
Mark 1.00 out of 1.00	

What is the output of the following code

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

a. True True True

b. FalseFalse

True

C. True
False

True

d. True False False

Your answer is correct.

The correct answer is:

True

False

True

5/24, 11.07 AW	VCCKZ_WOQ. Allempt review NEO-1 O
Question 10	
Correct	
Mark 1.00 out of 1.00	
Which is the following is an Arithmetic operator in Pythol	1?
1. // (floor division) operator	
2. & (binary and) operator	
3. ~ (navigation) operator4. >> (right shift) operator	
4. >> (right shift) operator	
○ a. 2	
b. 1 ✓	
o c. 4	
O d. 3	
Your answer is correct.	
The correct answer is: 1	
ı	
Question 11	
Correct	
Mark 1.00 out of 1.00	
What is the output of the following assignment operator?	
y = 10	
x = y += 2	
<pre>print(x)</pre>	
a. Syntax Error 	
O b. 14	
o c. 10	
O d. 12	

Your answer is correct.

The correct answer is: Syntax Error

Question 12	
Incorrect	
Mark 0.00 out of 1.00	

What is the output of the following code: print 11//2?

a. 5 ×

O b. Error

oc. 5.0

od. 5.5

Your answer is incorrect.

The correct answer is:

Error



What is the order of precedence in python?

- 1. Multiplication
- 2. Division
- 3. Parentheses
- 4. Addition
- 5. Exponentiation
- a. 1,2,3,4,5
- o b. 1,5,2,4,3
 - 3,1,2,4,5
- C. 3,5,1,2,4
- od. 3,1,2,4,5

Your answer is correct.

The correct answer is:

3,5,1,2,4

Question 14
Correct April 100 put of 100
Mark 1.00 out of 1.00
What is the value of the expression 1+2**3*4+12*((100+4)*10-200//10) ?
○ a. 12493
○ b24568
○ c23679
⊚ d. ₁₂₂₇₃ ✓
Your answer is correct. The correct answer is:
The correct answer is.
12273
Question 15
Correct
Mark 1.00 out of 1.00
What will be the output of statement 2**2**2**2
○ a. 16
○ b. 32768
○ c. 256
Your answer is correct.
The correct answer is:
65536
→ Operators
Jump to

Week2_Coding ►

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Algorithmic Approach: Selection control structures</u> / <u>Week3 mcq</u>

Started on	Monday, 1 April 2024, 7:51 PM
State	Finished
Completed on	Monday, 1 April 2024, 8:14 PM
Time taken	22 mins 19 secs
Grade	10.00 out of 15.00 (66.67 %)
Question 1 Incorrect Mark 0.00 out of 1.00	
is an e	mpty statement in Python.

a. Empty X

ob. None

c. Jump

Od. pass

Your answer is incorrect.

The correct answer is: pass

```
Question 2
Correct
Mark 1.00 out of 1.00
```

Write the output of the following code:

```
x="Joy"
if(x=="John"):
    print("Aero")
elif(x=="Joy"):
    pass
else:
    print("REC")
print("REC-AERO")
```

- a. REC REC-AERO
- O b. All the Above
- c. REC-AERO ✓
- d. Aero

 REC

 REC-Aero

Your answer is correct.

The correct answer is: REC-AERO

9/24, 11:06 AM	Week3_mcq: Attempt review REC-PS
Question 3	
Correct	
Mark 1.00 out of 1.00	
TT	
What is the value of x at the end of the follow:	ing sequence of instructions?
x = 10	
x = x * 3	
x = x + 5	
○ a. 45	
O c. 15	
O d. 30	
u. 30	
Your answer is correct.	
The correct answer is:	
35	
Question 4	
Correct	
Mark 1.00 out of 1.00	
What does the arithmetic operator % do?	
 a. Finds the sum of two numbers 	

- b. Finds the quotient on dividing two numbers
- oc. Finds the product of two numbers
- lacktriangledown d. Finds the remainder on dividing two numbers \checkmark

Your answer is correct.

The correct answer is:

Finds the remainder on dividing two numbers

Question 5	
Correct	
Mark 1.00 out of 1.00	
x,y=1,2	
if(x or y):	
print("1")	
else:	
print("0")	
a. Runtime error	
O b. 0	
c. Compile time error	
⊚ d. 1 ✓	
Your answer is correct.	
The correct answer is:	
1	
Question 6	
Correct	
Mark 1.00 out of 1.00	
What is the output	
a, b, c = 1, 3, 5	
if a + b + c:	
print("Hello")	
else:	
print("Know Program")	
a. Know Program	
b. Hello ✓	
○ c. Error	
od. Compiled Successfully, No Output.	
Your answer is correct.	
The correct answer is:	
Hello	

Cuestion 7 Incorrect Mark 0.00 out of 1.00 what will be the output for the following question? a. b = 12, 5 if a + b: print(True) else: print(True) o. a. False b. Error × c. True Your answer is incorrect. The correct answer is: True What keyword would you use to add an alternative condition to an if statement? what self b. else if × c. elseif d. None of the above	9/24, 11:06 AM	Week3_mcq: Attempt review REC-PS
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 incorrect. The correct answer is: True Cueson 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif	Question 7	
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 incorrect. The correct answer is: True Cuestion 8 Incorrect Mark 000 out of 1 00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif	Incorrect	
a, b = 12.5 if a + b: print('True') else: print('False') a. False b. Error × c. True Your answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elself	Mark 0.00 out of 1.00	
a, b = 12.5 if a + b: print('True') else: print('False') a. False b. Error × c. True Your answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elself		
if a + b: print('True') else: print('False') a. False b. Error × c. True Your answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif	what will be the output for the following question?	
else: print('False') a. False b. Error X c. True Your answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if X c. elseif	a, b = 12, 5	
else: print(False*) a. False b. Error X c. True Your answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if X c. elseif	if a + b:	
print(False') a. False b. Error X c. True Your answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if X c. elseif	print('True')	
 a. False b. Error X c. True Your answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if X c. elseif 	else:	
 b. Error X c. True Your answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if X c. elseif 	print('False')	
 b. Error X c. True Your answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if X c. elseif 		
Vour answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif	○ a. False	
Your answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif		
Your answer is incorrect. The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif	o c. True	
The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif		
The correct answer is: True Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif	Your answer is incorrect	
Question 8 Incorrect Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif		
Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif		
Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif		
Mark 0.00 out of 1.00 What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif	Question 8	
What keyword would you use to add an alternative condition to an if statement? a. elif b. else if × c. elseif		
 a. elif b. else if × c. elseif 	Mark 0.00 out of 1.00	
 a. elif b. else if × c. elseif 		
b. else if ×c. elseif	What keyword would you use to add an alternative condition to	an if statement?
b. else if ×c. elseif		
○ c. elseif	o a. elif	
	b. else if X	
○ d. None of the above	o c. elseif	
	od. None of the above	
Your answer is incorrect	Your answer is incorrect	

The correct answer is: elif

```
Question 9
Correct
Mark 1.00 out of 1.00
```

What is the output of the following snippet if 5 is given as the input?

Your answer is correct.

The correct answer is: 555

Question **10**Incorrect

Mark 0.00 out of 1.00

Which of the following is true about the code below?

```
x = 3
if (x > 2):
    x = x * 2;
if (x > 4):
    x = 0;
print(x)
```

- a. if x is lesser then 0,x will be 0 after this code executes
- b. x will always equal 0 after this code executes for any value of x X
- oc. if x is greater than 2, the value in x will be doubled after this code executes
- Od. if x is greater than 2, x will equal 0 after this code executes

Your answer is incorrect.

The correct answer is:

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

Question 11	
Correct	
Mark 1.00 out of 1.00	

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

one we have a case and make the case when a case of ca	
x = 0	
a = 5	
b = 5	
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)	

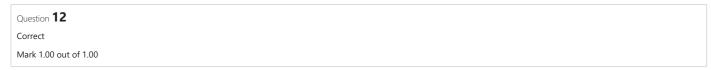
- a. 0
- b. 3

 ✓
- O c. 2
- od. 4

Your answer is correct.

The correct answer is:

3



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")
```

- O a. 1
- b. 2

 ✓
- O c. 3

Your answer is correct.

The correct answer is:

2

Question **13**Correct

Mark 1.00 out of 1.00

What will be output for the following code?

if 3 == 3:

print("Python is easy!")

- a. NO OUTPUT
- b. Python is easy!
 ✓
- Oc. Error

Your answer is correct.

The correct answer is:

Python is easy!

```
Question 14
Correct
Mark 1.00 out of 1.00
```

What is the output of the following snippet?

```
s1 = "IIT " # Remember there is a space after T in IIT
s2 = "Punjab"
s1 = s1 * 2
s2 = "Ropar"
print(s1, s2)
```

- a. IIT IIT Punjab
- b. IIT IIT Ropar
 ✓
- oc. IIT Punjab
- od. IIT Ropar

Your answer is correct.

The correct answer is:

IIT IIT Ropar

Question 15

Incorrect

Mark 0.00 out of 1.00

____ is an empty statement in Python.

- a. Empty X
- Ob. pass
- oc. None
- od. Jump

Your answer is incorrect.

The correct answer is: pass

→ Selection control structures

Jump to...

Week3_coding ►

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Algorithmic Approach: Iteration control structures.</u> / <u>Week4 mcq</u>

	Thursday, 11 April 2024, 8:58 PM
	Finished Till 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Completed on Time taken	Thursday, 11 April 2024, 9:23 PM
Time taken	25 MINS
Question 1 Complete	
For loop follows wh	nich principle?
a. You Aren't	Going to Need It(YAGNI)
b. Don't Repe	eat Yourself (DRY)
c. Open/close	ed
d. Single resp	onsibility
Question 2	
Not answered	
for x in [0, 1, 2]]:
Predict the output of	of the program?
a. Prints noth	ing
b. Prints 0,1,2	
C. Compilatio	n Error
Od. Runtime Er	ror
Question 3	
Not answered	
The range() function	n by defaults increments by
Answer:	
	J

```
Question 4
Not answered
```

While loop can execute a set of statements till

- a. The condition is False
- O b. The condition is True
- c. The condition stops executing
- od. The condition starts executing

Question ${\bf 5}$

Not answered

```
i = 0
while i <3 :
    print(i)
    i += 1
    if i == 2:
        continue
    else:
        print(0)</pre>
What is the output of the following?
```

- a. 0
 - 1
 - 1
 - 1
 - 0
- O b. **0**
 - 0
 - 1
 - 1
- O c. **0**
 - 0
 - 1
 - 2
 - 0
- O d. **0**
 - 1
 - 2
 - 0

```
Question 6
Not answered
```

```
num =0
while num < 5:
   num = num + 1
      print('num = ', num)
Predict the output of the following?</pre>
```

- a. Prints no output
- b. Indentation Error
- c. Runs correctly
- d. Runtime error

Question **7**

Not answered

```
i=1
while True:
    if i%007==0:
        break
    print(i)
    i+=1
```

Predict the output of the following?

- O a. 7
- b. 01234567
- o. 123456
- od. 1234567

Question **8** Not answered Predict the output of the program? for x in range(4): if x == 3: break print(x) else: print("Finally finished!") a. 0 1 2 3 b. 0 1 2 o. Finally Finished! O d. 0 1 2 3 Finally Finished! Question ${\bf 9}$ Not answered For loop in python is a. Multi Control Loop b. Entry Control Loop c. Simple Loop d. Exit Control Loop Question 10 Not answered for x in [0, 1, 2]: pass Predict the output of the program? a. Compilation Error b. Runtime Error c. Prints nothing

d. Prints 0,1,2

Question 11	
Not answered	
How many times it will print the statement?	
for i in range(102):	
print(i)	
Answer:	
Question 12	
Not answered	
Which of the following is an infinite loop?	
a. while(i==2):	
b. while(0):	
c. while(infinite):	
d. while(1):	
Question 13	
Not anguered	
Not answered	
Not answered	
Syntax of range()	
Syntax of range()	
Syntax of range() a. (start, step, stop)	
Syntax of range() a. (start, step, stop) b. (start, stop, step)	
Syntax of range() a. (start, step, stop) b. (start, stop, step) c. (step, stop, start)	
Syntax of range() a. (start, step, stop) b. (start, stop, step) c. (step, stop, start)	
Syntax of range() a. (start, step, stop) b. (start, stop, step) c. (step, stop, start)	
Syntax of range() a. (start, step, stop) b. (start, stop, step) c. (step, stop, start) d. (stop, step, start)	
Syntax of range() a. (start, step, stop) b. (start, stop, step) c. (step, stop, start) d. (stop, step, start)	
Syntax of range() a. (start, step, stop) b. (start, stop, step) c. (step, stop, start) d. (stop, step, start)	
Syntax of range() a. (start, step, stop) b. (start, stop, step) c. (step, stop, start) d. (stop, step, start)	
Syntax of range() a. (start, step, stop) b. (start, stop, step) c. (step, stop, start) d. (stop, step, start)	
Syntax of range() a. (start, step, stop) b. (start, stop, step) c. (step, stop, start) d. (stop, step, start) Question 14 Not answered A for loop can iterate over a	
Syntax of range() a. (start, step, stop) b. (start, stop, step) c. (step, stop, start) d. (stop, step, start) Question 14 Not answered A for loop can iterate over a a. integer b. list	
Syntax of range() a. (start, step, stop) b. (start, stop, step) c. (step, stop, start) d. (stop, step, start) Question 14 Not answered A for loop can iterate over a a. integer	

Jump to...

Question 1!	
Which o	of the following is an infinite loop?
О а.	while(infinite):
O b.	while $(i = 2)$:
O c.	while(0):
O d.	while(1):
✓ Itera	ation control structures

Week4_Coding ►

Dashboard / My courses / PSPP/PUP / Experiments based on Strings and its operations. / Week5 MCQ

	Saturday, 4 May 2024, 9:18 PM
	Finished
	Saturday, 4 May 2024, 9:31 PM
	13 mins 18 secs 8.00 out of 15.00 (53.33%)
Grade	6.00 Out of 15.00 (55.55 %)
Question 1	
Incorrect	
Mark 0.00 out of 1.00	
What is the output	of the following code ?
example = "snow w	vorld"
example[3] = 's'	ond .
print example	
a. snow world	4
b. snow	
C. Error	
d. snos world	×
Your answer is inco	
The correct answer Error	IS:
EHOI	
Question 2	
Correct	
Mark 1.00 out of 1.00	
What is the output	of the following code?
str1="vijay"	
for i in range(len(st	r1),6):
print(i)	
,	
○ a. y	
b. None of th	e above
© c. 5 ✓	
d. vijay	
Your answer is corre	ect.
The correct answer	

www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=10855&cmid=99

Question 3
Correct Mark 1.00 out of 1.00
What is the output of the following Code?
str1="arvijayakumar"
print(str1[::-1])
Answer: ramukayajivra
The correct answer is: ramukayajivra
The correct answer is. rumakayajiwa
Question 4 Correct
Mark 1.00 out of 1.00
What is the output of the following code?
<pre>print('Ab!2'.swapcase())</pre>
○ a. AB!@
○ b. aB1@
o c. ab12
Your answer is correct.
The correct answer is:
aB!2
Question 5
Incorrect Mark 0.00 out of 1.00
What will the below Python code will return?
str1="save paper,save plants"
str1.find("save")
 a. It returns the last index position of the first occurance of "save" in the given string str1. X
b. It returns the first index position of the last occurance of "save" in the given string str1.
c. It returns the first index position of the first occurance of "save" in the given string str1.
d. It returns the last index position of the last occurance of "save" in the given string str1.
u. It returns the last madex position of the last occurance of save. In the given string stri.
Your answer is incorrect.

The correct answer is:

It returns the first index position of the first occurance of "save" in the given string str1.

```
Question 6
Correct
Mark 1.00 out of 1.00
 What is the output of the following Code?
 print(chr(69))
            Ε
 Answer:
 The correct answer is: E
Question 7
Incorrect
Mark 0.00 out of 1.00
 What will be the output of the following code?
 a = '2'
 b = 4
 print(a*b)
 Answer:
            8
 The correct answer is: 2222
Question 8
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. ['Wh', 't will h', 've so will']
   b. ['What', 'will', 'have', 'so', 'will'] X
   oc. What will have so will
   od. Whit will hive so will
 Your answer is incorrect.
 The correct answer is:
 Wh t will h ve so will
```

```
Question 9
Correct
Mark 1.00 out of 1.00
```

```
What is the output of the following?
i = 0
while i < 3:
    print(i)
    i += 1
else:
    print(0)</pre>
```

- a. 012
- b. 0120

 ✓
- o. 01230
- d. Error

Your answer is correct.

The correct answer is:

0120

Question 10

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code?

```
my_string = "arvjayakumar"
i = "i"
while i in my_string:
    print(i, end =" ")
```

- b. arvjayakumar
- c. None
- d. arvjayakumar

Your answer is incorrect.

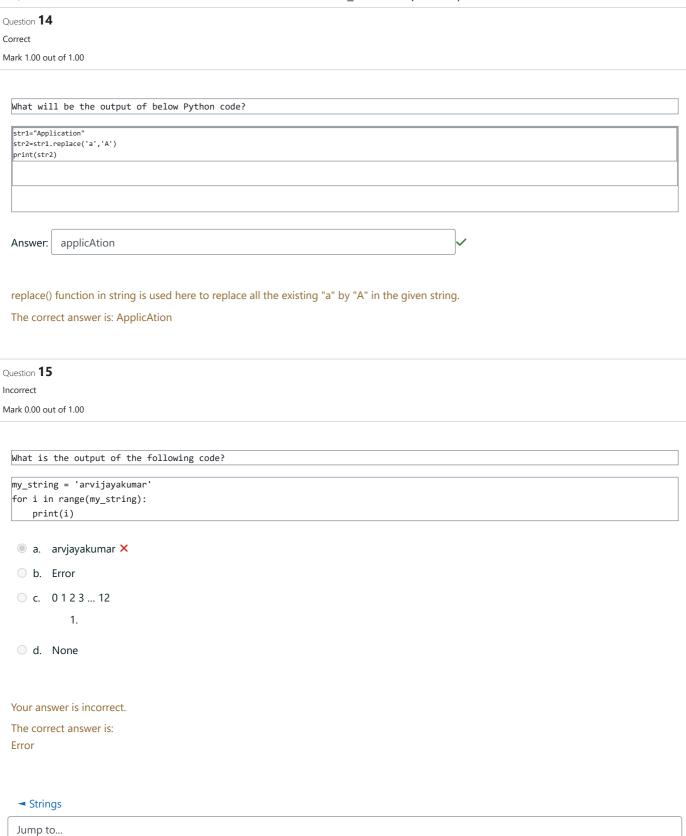
The correct answer is:

None

Question I I	
Correct	
Mark 1.00 out	of 1.00
What wil	l be the output of below Python code?
str1="poWer str1.upper(
print(str1)	
	DOWER
Answer:	POWER
str1.uppe	r() returns the uppercase of whole string str1. However,it doesnot change the string str1. So, output will be the original str1.
The corre	ect answer is: poWer
Question 12	
Incorrect	
Mark 0.00 out	of 100
Mark 0.00 out	.01 1.00
What is	the output of the following Code?
Wildt 13	the output of the following code:
str1="6/4"	
print("st	r1")
^	
Answer:	6/4 ×
The corre	ect answer is: str1
Question 13	
Correct	
Mark 1.00 out	of 1.00
What wil	l be the output of below Python code?
str1="Info	
print(str	1[2:8])
A n. s	format
Answer:	format

Concept of slicing is used in this question. In string slicing, the output is the substring starting from the first given index position i.e 2 to one less than the second given index position i.e.(8-1=7) of the given string str1. Hence, the output will be "format".

The correct answer is: format



Week5_Coding ►

Dashboard / My courses / PSPP/PUP / Experiments based on Lists and its operations. / Week6 MCQ

Started on	Tuesday, 14 May 2024, 6:07 PM
State	Finished
Completed on	Tuesday, 14 May 2024, 6:26 PM
Time taken	18 mins 59 secs
Grade	13.00 out of 15.00 (86.67 %)
Question 1	
Correct	
Mark 1.00 out of 1.00	
L=["Amit","Sumit" L1=["Sunil"] print(L + L1)	,"Naina"]
a. <u>List</u> can no	ot concatenate
b. ['Amit' , 'S	umit' , 'Naina' , 'Sunil'] 🗸
C. ['Amit' 'S	umit' , 'Naina' , ['Sunil']]
Your answer is correct answer ['Amit' , 'Sumit' , '	is:
Question 2	
Incorrect	
Mark 0.00 out of 1.00	
L=[0.5 * x for x in ra print(L)	nge(4)]
Answer: 0.0, 0.5, 1	.0, 1.5
The correct answer	is: [0.0, 0.5, 1.0, 1.5]

Question 3
Correct
Mark 1.00 out of 1.00

Suppose list1 is [35, 55, 25, 11, 3], what is min(list1)?

- a. 11
- b. 3

 ✓
- Oc. 35

Your answer is correct.

The correct answer is:

3

Question 4

Correct

Mark 1.00 out of 1.00

What will be the output after the following statements?

m = []

for n in range(6):

m.append(n*3)

print(m)

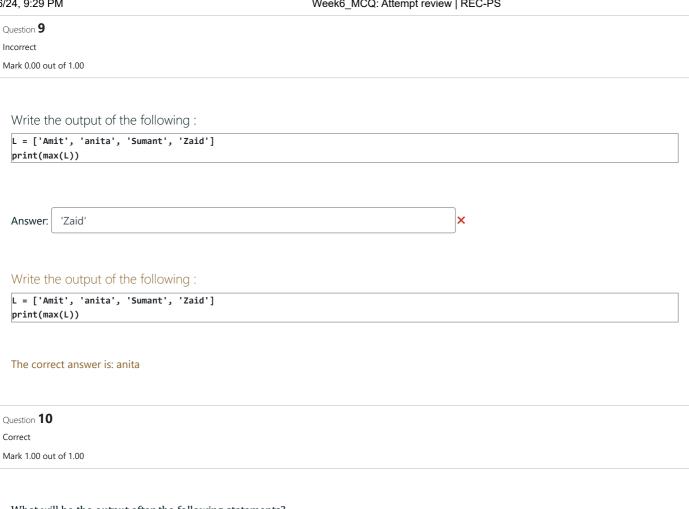
- a. [0, 3, 6, 9, 12, 15]
 ✓
- O b. []
- o. [3, 6, 9, 12, 15]
- od. [0, 3, 6, 9, 12]

Your answer is correct.

The correct answer is: [0, 3, 6, 9, 12, 15]

/24, 9:29	PM	Week6_MCQ: Attempt review REC-PS
Question 5		
Correct	. (100	
Mark 1.00 o	ut of 1.00	
	the data type of m after the following statement? aly', 'September', 'December']	
a.	<u>List</u> ✓	
O b.	Tuple	
O c.	String	
O d.	<u>Dictionary</u>	
Your an	swer is correct.	
	rect answer is:	
<u>List</u>		
Question 6 Correct		
Mark 1.00 o	ut of 1.00	
Which o	of the following can add only one value to a <u>list</u> ?	
a.	add()	
b.	append() 🗸	
О с.	push()	
O d.	extend()	
Your an	swer is correct.	
The cor	rect answer is:	
append	0	

/24, 9:29 PM	Week6_MCQ: Attempt review REC-PS
Question 7	
Correct	
Mark 1.00 out of 1.00	
Find the output?	
list1 = <u>list('REC_CSE_ECE')</u>	
print(list1.index('_'))	
a. AttributeError: ' <u>list</u> ' object has no attribute 'index'	
○ b4	
○ c. 4	
⊚ d. 3 ✓	
Your answer is correct.	
The correct answer is: 3	
Question 8	
Correct	
Mark 1.00 out of 1.00	
Which of the following can delete an element from a <u>list</u> , if	f its value is given?
a. extend()	
b. remove() ✓	
oc. del()	
○ d. pop()	
• • •	
Your answer is correct.	
The correct answer is:	
remove()	



What will be the output after the following statements?

m = [45, 51, 67]n = m[2]print

- a. 45
- o b. 51
- o. [45, 51, 67]
- d. 67 ✓

Your answer is correct.

The correct answer is:

67

```
Question 11
Correct
Mark 1.00 out of 1.00
 What will be the output after the following statements?
 m = ['July', 'September', 'December']
 n = m[1]
 print
   a. September 
   Ob. December
   oc. July
   d. ['July', 'September', 'December']
  Your answer is correct.
 The correct answer is:
 September
Question 12
Correct
Mark 1.00 out of 1.00
 What will be the output after the following statements?
 m = 'A'
 n = 'B'
 o = 'C'
 p = [m, n, o]
 print(p)
  a. 'C', 'A', 'B'
   b. ['C', 'B', 'A']
   o. ['C', 'A', 'B']

    d. ['A', 'B', 'C'] 
✓
```

Your answer is correct.

The correct answer is: ['A', 'B', 'C']

Question 13
Correct
Mark 1.00 out of 1.00

Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.reverse()?

- a. [3, 4, 5, 20, 5, 25, 1, 3]
- b. [3, 1, 25, 5, 20, 5, 4, 3]
- o. [1, 3, 3, 4, 5, 5, 20, 25]

Your answer is correct.

The correct answer is: [3, 1, 25, 5, 20, 5, 4, 3]

Question 14

Correct

Mark 1.00 out of 1.00

What will be the output after the following statements? $m = [5, 10, 35] \\ del \ m[:] \\ print(m)$

- a. 5, 10, 35
- o b. [5, 10, 35]
- od. [5, 35]

Your answer is correct.

The correct answer is:

Jump to...



Week6_Coding ►

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Experiments based on Variables, Datatypes in Python.</u> / <u>Week1 Coding</u>

Started on	Thursday, 14 March 2024, 11:15 AM
State	Finished
Completed on	Thursday, 14 March 2024, 12:44 PM
Time taken	1 hour 29 mins
Marks	6.00/6.00
Grade	100.00 out of 100.00

```
Question 1
Correct
Mark 1.00 out of 1.00
```

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

Sample Input:

10

10.9

Sample Output:

10,<class 'int'>

10.9, < class 'float' >

For example:

Input Result		Result
	10	10, <class 'int'=""></class>
	10.9	10.9, <class 'float'=""></class>

Answer: (penalty regime: 0 %)

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

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00.

Question 2		
Correct		
Mark 1.00 out of 1.00		

Ramesh's basic salary is input through the keyboard. His dearness allowance is 40% of his basic salary, and his house rent allowance is 20% of his basic salary. Write a program to calculate his gross salary.

Sample Input:

10000

Sample Output:

16000

For example:

Input	Result
10000	16000

Answer: (penalty regime: 0 %)

salary =int(input())
gross_salary=salary+(salary*0.4)+(salary*0.2)
print(gross_salary)

	Input	Expected	Got	
~	10000	16000	16000.0	~
~	20000	32000	32000.0	~
~	28000	44800	44800.0	~
~	5000	8000	8000.0	~

Passed all tests! ✓

Correct

Question **3**Correct

Mark 1.00 out of 1.00

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

Sample Input:

8.00

Sample Output:

2.828

For example:

Input	Result
14.00	3.742

Answer: (penalty regime: 0 %)

```
import math
a=float(input())
print(round(math.sqrt(a),3))
```

	Input	Expected	Got	
~	8.00	2.828	2.828	~
~	14.00	3.742	3.742	~
~	4.00	2.000	2.0	~
~	487	22.068	22.068	~

Passed all tests! ✓

Correct

Question 4
Correct
Mark 1.00 out of 1.00

Alfred buys an old scooter for Rs. X and spends Rs. Y on its repairs. If he sells the scooter for Rs. Z (Z>X+Y). Write a program to help Alfred to find his gain percent. Get all the above-mentioned values through the keyboard and find the gain percent.

Input Format:

The first line contains the Rs X

The second line contains Rs Y

The third line contains Rs Z

Sample Input:

10000

250

15000

Sample Output:

46.34 is the gain percent.

For example:

Input	Result		
45500	30.43 is the gain pe	rcent.	
500			
60000			

```
x=int(input())
y=int(input())
expense=x+y
sale=int(input())
profit=sale-expense
percentage=profit/expense*100
print(F"{percentage:.2F} is the gain percent.")
```

	Input	Expected	Got	
~	10000 250 15000	46.34 is the gain percent.	46.34 is the gain percent.	~
~	45500 500 60000	30.43 is the gain percent.	30.43 is the gain percent.	~

	Input	Expected	Got	
~	5000 0 7000	40.00 is the gain percent.	40.00 is the gain percent.	~
~	12500 5000 18000	2.86 is the gain percent.	2.86 is the gain percent.	~

Passed all tests! 🗸

Correct

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

In many jurisdictions, a small deposit is added to drink containers to encourage people to recycle them. In one particular jurisdiction, drink containers holding one liter or less have a \$0.10 deposit and drink containers holding more than one liter have a \$0.25 deposit. Write a program that reads the number of containers of each size(less and more) from the user. Your program should continue by computing and displaying the refund that will be received for returning those containers. Format the output so that it includes a dollar sign and always displays exactly two decimal places.

Sample Input

10

20

Sample Output

Your total refund will be \$6.00.

For example:

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

Answer: (penalty regime: 0 %)

```
less=int(input())
more=int(input())
refund_less=less*0.10
refund_more=more*0.25
total_refund=refund_less+refund_more
print("Your total refund will be $","{:.2F}".format(total_refund),".",sep="")
```

	Input	Expected	Got	
~	20 20	Your total refund will be \$7.00.	Your total refund will be \$7.00.	~
~	11 22	Your total refund will be \$6.60.	Your total refund will be \$6.60.	~
~	123 200	Your total refund will be \$62.30.	Your total refund will be \$62.30.	~
~	76 38	Your total refund will be \$17.10.	Your total refund will be \$17.10.	~

Passed all tests! <

Correct

```
Question 6
Correct
Mark 1.00 out of 1.00
```

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

Hint:

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

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

```
number = -20
absolute_number = abs(number)
print(absolute_number)
# Output: 20
```

Sample Input:

450

Sample Output:

weekdays 10.38

weekend 0.38

For example:

Input	Result
450	weekdays 10.38 weekend 0.38

```
sal=int(input())
weekend_sal=abs((sal-500)/130)
weekday_sal=weekend_sal+10
print("weekdays",f"{weekday_sal:.2f}")
print("weekend",f"{weekend_sal:.2f}")
```

	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	~

	Inp	ut	Expected	Got	
~	100	90	weekdays 83.08 weekend 73.08	weekdays 83.08 weekend 73.08	~
~	678	9	weekdays 58.38 weekend 48.38	weekdays 58.38 weekend 48.38	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

■ Week1_Quiz

Jump to...

Operators -

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Operators and Formatting Output.</u> / <u>Week2 Coding</u>

Started on	Thursday, 21 March 2024, 10:57 AM
State	Finished
Completed on	Thursday, 21 March 2024, 12:35 PM
Time taken	1 hour 37 mins
Marks	19.00/19.00
Grade	100.00 out of 100.00

```
Question 1
Correct
Mark 1.00 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 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 %)

```
initial_deposit = float(input())
interest_rate = 0.04
balance_year_1 = initial_deposit*(1+interest_rate)
balance_year_2 = balance_year_1*(1+interest_rate)
balance_year_3 = balance_year_2*(1+interest_rate)
print(f"Balance as of end of Year 1: ${balance_year_1:.2f}.")
print(f"Balance as of end of Year 2: ${balance_year_2:.2f}.")
print(f"Balance as of end of Year 3: ${balance_year_3:.2f}.")
```

	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

Question **2**Correct
Mark 1.00 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	False
40	

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

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

Passed all tests! 🗸

Correct

Question **3**Correct
Mark 1.00 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 %)

```
| number = int(input()) | count_ones = (number & 1) + ((number >> 1)& 1) + ((number >> 2)& 1) + ((number >> 3)& 1) | print(count_ones) |
```

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

Passed all tests! ✓

Correct

```
Question 4
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 <u>operators</u> or arithmetic <u>operators</u> 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	С	

```
1  | X = int(input())
    ascii_value = 67+X
    print(chr(ascii_value))
4  |
```

	Input	Expected	Got	
~	0	С	С	~
~	1	D	D	~

Passed all tests! 🗸

Correct

Question **5**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 %)

```
number = int(input())
last_digit = abs(number)%10
print(last_digit)
```

```
| Input | Expected | Got | | |
| ✓ | 197 | 7 | 7 | ✓ |
| ✓ | -197 | 7 | 7 | ✓ |
```

Passed all tests! ✓

Correct

Question **6**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	True	False	True	True	
25					
23					
20					
10					

```
1 N=int(input())
2 p1=int(input())
3 p2=int(input())
4 p3=int(input())
5 p4=int(input())
6 result1=(p1%N)==0
7 result2=(p2%N)==0
8 result3=(p3%N)==0
9 result4=(p4%N)==0
10 print(result1, result2, result4)
```

	Input	Expected	Got	
~	5	True False True True	True False True True	~
	25			
	23			
	20			
	10			
~	4	False True False True	False True False True	~
	23			
	24			
	21			
	12			
~	8	True True True True	True True True True	~
	64			
	8			
	16			
	32			
	1			

Passed all tests! 🗸

Correct

Question 7

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 %)

```
widgets_weight=75
gizmos_weight=112
num_widgets=int(input())
num_gizmos=int(input())
total_weight=(num_widgets*widgets_weight)+(num_gizmos*gizmos_weight)
print(f"The total weight of all these widgets and gizmos is {total_weight} 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

```
Question 8
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	False
43	

```
total_weapons = int(input())
total_soldiers = int(input())
can_win_battle = (total_weapons % 3 ==0) and (total_soldiers % 2 ==0)
print(can_win_battle)
```

	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! <

Question **9**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 %)

```
1 | hum = int(input())
2 | dolls_sings = (num % 2 == 0) and (num > 0) and (num < 100)
3 | print(dolls_sings)
```

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

Passed all tests! ✓

Correct

Question 10
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	Res	ult											
100	The	tax	is	5.00	and	the	tip	is	18.00,	making	the	total	123.00

Answer: (penalty regime: 0 %)

```
meal_cost = float(int(input()))
tax_rate = 0.05
tip_rate = 0.18
tax_amount = meal_cost*tax_rate
tip_amount = meal_cost*tip_rate
total_cost=meal_cost + tax_amount + tip_amount
print(f"The tax is {tax_amount:.2f} and the tip is {tip_amount:.2f}, making the total {total_cost:.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.

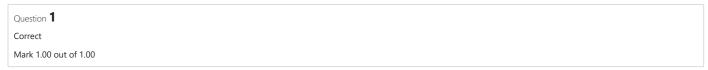
■ Week2_MCQ

Jump to...

Selection control structures ►

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Algorithmic Approach: Selection control structures</u> / <u>Week3 coding</u>

Started on	Thursday, 28 March 2024, 11:57 AM
State	Finished
Completed on	Monday, 1 April 2024, 7:18 PM
Time taken	4 days 7 hours
Overdue	2 days 7 hours
Marks	10.00/10.00
Grade	100.00 out of 100.00



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	OUT
3	

```
problems_given=int(input())
problems_solved=int(input())
if problems_solved>=problems_given/2:
    print("IN")
else:
    print("OUT")
```

	Input	Expected	Got	
~	8	OUT	OUT	~
~	8	IN	IN	~
~	20 9	OUT	OUT	~
~	50 31	IN	IN	~

Passed all tests! 🗸

Correct

```
Question 2
Correct
Mark 1.00 out of 1.00
```

Write a program that returns the second last digit of the given number. Second last digit is being referred 10the digit in the tens place in the given number.

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

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

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

For example:

Input	Result
197	9
5	-1

Answer: (penalty regime: 0 %)

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

Passed all tests! <

Correct

```
Question 3
Correct
Mark 1.00 out of 1.00
```

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

February has 28 or 29 days in it.

Sample Input 2

March

Sample Output 2

March has 31 days in it.

Sample Input 3

April

Sample Output 3

April has 30 days in it.

For example:

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

```
m=input().capitalize()
if m=="January"or m=="Mayror m=="July"or m=="August"or m=="October"or m=="December":
    d="31"
elif m=="February":
    d="28 or 29"
else:
    d="30"
print(f"{m} has {d} 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! ✓

Correct

```
Question 4
Correct
Mark 1.00 out of 1.00
```

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

Unit Charge / Unit
Upto 199 @1.20
200 and above but less than 400 @1.50
400 and above but less than 600 @1.80
600 and above @2.00

If bill exceeds Rs.400 then a surcharge of 15% will be charged and the minimum bill should be of Rs.100/-

Sample Test Cases

Test Case 1

Input

50

Output

100.00

Test Case 2

Input

300

Output

517.50

For example:

Input	Result
100.00	120.00
500	1035.00

```
1 units = float(input())
2 v if units<=199:
3
        bill=units*1.20
4 v elif units<400:
5
        bill=units*1.50
6 v elif units<600:
7
        bill=units*1.80
8 •
    else:
        bill = units*2.00
9
10 v if bill > 400:
11
        bill += bill*0.15
12 v if bill < 100:
        bill = 100
13
14 print(bill)
```

	Input	Expected	Got	
~	50	100.00	100	~
~	100.00	120.00	120.0	~
~	500	1035.00	1035.0	~
~	700	1610.00	1610.0	~

Passed all tests! 🗸

Correct

```
Question 5
Correct
Mark 1.00 out of 1.00
```

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 %)

	Input	Expected	Got	
~	1900	1900 is not a leap year.	1900 is not a leap year.	~
~	2000	2000 is a leap year.	2000 is a leap year.	~
~	2100	2100 is not a leap year.	2100 is not a leap year.	~
~	2020	2020 is a leap year.	2020 is a leap year.	~

Passed all tests! <

Correct

```
Question 6
Correct
Mark 1.00 out of 1.00
```

Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third.

For example, 3, 5 and 4 form a Pythagorean triple, since 3*3 + 4*4 = 25 = 5*5

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

Sample Input

3

5

4

Sample Output

yes

Sample Test Cases

Test Case 1

Input

3

5

4

Output

yes

Test Case 2

Input

5

8

2

Output

no

	Input	Expected	Got	
~	3 5 4	yes	yes	~
~	5 8 2	no	no	~

Passed all tests! 🗸

Correct

```
Question 7
Correct
Mark 1.00 out of 1.00
```

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

Marks in Maths >= 65

Marks in Physics >= 55

Marks in Chemistry >= 50

Or

Total in all three subjects >= 180

Sample Test Cases

Test Case 1

Input

70

60

80

Output

The candidate is eligible

Test Case 2

Input

50

80

80

Output

The candidate is eligible

Test Case 3

Input

50

60

40

Output

The candidate is not eligible

For example:

Input	Result				
70	The candidate is eligible				
60					
80					

	Input	Expected	Got	
~	70 60 80	The candidate is eligible	The candidate is eligible	~
~	50 80 80	The candidate is eligible	The candidate is eligible	~
~	50 60 40	The candidate is not eligible	The candidate is not eligible	~
~	20	The candidate is not eligible	The candidate is not eligible	~

Passed all tests! ✓

10 25

Correct

```
Question 8
Correct
Mark 1.00 out of 1.00
```

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

```
s1=int(input())
1
2
   s2=int(input())
3
   s3=int(input())
4
   if s1==s2 and s2==s3:
       print("That's a equilateral triangle")
5
6
   elif s1==s2 or s2==s3:
7
       print("That's a isosceles triangle")
8 🔻
   else:
       print("That's a scalene triangle")
```

	Input	Expected	Got	
~	60 60 60	That's a equilateral triangle	That's a equilateral triangle	~
~	40 40 80	That's a isosceles triangle	That's a isosceles triangle	~
~	50 60 70	That's a scalene triangle	That's a scalene triangle	~
~	50 50 80	That's a isosceles triangle	That's a isosceles triangle	~
~	10 10 10	That's a equilateral triangle	That's a equilateral triangle	~

Passed all tests! 🗸

```
Question 9
Correct
Mark 1.00 out of 1.00
```

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

Year Animal

2000 Dragon

2001 Snake

2002 Horse

2003 Sheep

2004 Monkey

2004 Monkey

2005 Rooster

2006 Dog

2007 Pig

2008 Rat

2009 Ox

2010 Tiger

2011 Hare

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

Sample Input 1

2010

Sample Output 1

2010 is the year of the Tiger.

Sample Input 2

2020

Sample Output 2

2020 is the year of the Rat.

```
1 y=int(input())
    r=y%12
 3 v if r==0:
 4
        s="Monkey"
 5 v elif r==1:
        s="Rooster"
 6
 7 v elif r==2:
8
        s="Dog"
9 v elif r==3:
10
        s="Pig"
11 v elif r==4:
12
        s="Rat"
13 v elif r==5:
        s="0x"
14
15 v elif r==6:
16
        s="Tiger"
17 v elif r==7:
        s="Hare"
18
19 v elif r==8:
20
        s="Dragon"
21 v elif r==9:
22
        s="Snake"
23 🔻
    elif r==10:
24
        s="Horse"
25 v else:
        s="Sheep"
26
   print(f"{y} is the year of the {s}.")
```

	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

```
Question 10
Correct
Mark 1.00 out of 1.00
```

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

```
Sample Input 1
```

i

Sample Output 1

It's a vowel.

Sample Input 2

У

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
у	Sometimes it's a vowel Sometimes it's a consonant.
С	It's a consonant.

	Input	Expected	Got	
~	i	It's a vowel.	It's a vowel.	~
~	у	Sometimes it's a vowel Sometimes it's a consonant.	Sometimes it's a vowel Sometimes it's a consonant.	~
~	С	It's a consonant.	It's a consonant.	~

	Input	Expected	Got	
/	е	It's a vowel.	It's a vowel.	~
/	r	It's a consonant.	It's a consonant.	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

■ Week3_mcq

Jump to...

Iteration control structures

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Algorithmic Approach: Iteration control structures.</u> / <u>Week4 Coding</u>

Started on	Thursday, 11 April 2024, 6:52 PM
State	Finished
Completed on	Thursday, 11 April 2024, 8:07 PM
Time taken	1 hour 14 mins
Marks	10.00/10.00
Grade	100.00 out of 100.00

```
Question 1
Correct
Mark 1.00 out of 1.00
```

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 %)

```
n=int(input())
 2
    ud=<mark>0</mark>
 3 ▼
    for d in range(10):
 4
         hd=False
 5
         while t>0:
 6
 7 ,
              if t%10==d:
 8
                  hd=True
 9
                  break
10
              t//=10
11 ,
         if hd:
              ud+=1
12
    print(ud)
```

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

Passed all tests! ✓

Correct

```
Question 2
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())
 2
    n=N
3 v if n<10:
        print("Yes")
5 v else:
6 •
        while n%2==0:
7
             n//=2
8 •
        while n%3==0:
9
             n//=3
10
        while n%5==0:
             n//=<mark>5</mark>
11
        while n%7==0:
12 🔻
13
             n//=7
14
        if n==1:
             print("Yes")
15
16
         else:
17
             print("No")
```

	Input	Expected	Got	
~	14	Yes	Yes	~
~	13	No	No	~

Passed all tests! ✓

Correct

```
Question 3
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: $2 \le N \le 5000$, 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())
2 v if n<2 or n>5000:
3
        pass
4 v else:
5
        p=True
        for i in range(2,int(n**0.5)+1):
6 ,
7 •
          if n%i==0:
            p=False
8
9
            break
        if p:
10
11
         print("2")
        else:
12 🔻
13
          print("1")
```

	Input	Expected	Got	
~	7	2	2	~
~	10	1	1	~

Passed all tests! ✓

Correct

```
Question 4
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 %)

```
n=int(input())
    nr=0
 3
    do=[0]*10
 4
    t=n
    while t>0:
 5 ,
 6
         d=t%10
 7
         do[d]+=1
         t//=10
 9
    t=n
10
    while t>0:
         d=t%10
11
12 ,
         if do[d]==1:
13
              do[d]=-1
14
              nr+=1
         t//=<mark>10</mark>
15
   print(nr)
```

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

Passed all tests! <

Correct

```
Question 5
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
```

$$9! = 9 \times 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 362880$$

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 %)

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

Passed all tests! <

Correct

Question **6**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 %)

	Input	Expected	Got	
~	10	16	16	~

Passed all tests! 🗸

Correct

Question **7**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 %)

```
n=int(input())
   ns=str(n)
3
    l=len(ns)
4
   s=0
5 v for i in range(1):
        s+=int(ns[i])**(i+1)
6
7 •
    if s==n:
8
        print("Yes")
9 v else:
10
        print("No")
```

	Input	Expected	Got	
~	175	Yes	Yes	~
~	123	No	No	~

Passed all tests! <

Correct

```
Question 8
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 %)

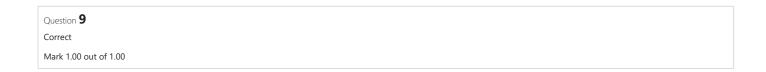
```
n=int(input())
    f=0
 2
 3
    s=1
4 v if n==1:
5
        print(f)
    elif n==2:
6 ▼
7
        print(s)
8 v else:
        for i in range (3,n+1):
9 ,
10
            t=f+s
11
            f=s
12
            s=t
13
        print(t)
```

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

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00.



Write a program to find the sum of the series $1 + 11 + 111 + 1111 + \dots + n$ 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 %)

	Input	Expected	Got	
~	4	1234	1234	~
~	6	123456	123456	~

Passed all tests! <

Correct

Question 10
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())
2
   n+=1
3
   sr=0
4 ,
   while sr*sr<n:
       sr+=1
  if sr*sr==n:
6 🔻
7
       print("Yes")
8 •
   else:
9
       print("No")
```

	Input	Expected	Got	
~	24	Yes	Yes	~
~	26	No	No	~

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00.

■ Week4_mcq

Jump to...

Strings -

Dashboard / My courses / PSPP/PUP / Experiments based on Strings and its operations. / Week5 Coding

Started on	Monday, 29 April 2024, 3:33 PM
	Finished
Completed on	Saturday, 4 May 2024, 9:15 PM
Time taken	5 days 5 hours
Overdue	3 days 5 hours
Marks	10.00/10.00
Grade	100.00 out of 100.00

```
Question 1
Correct
Mark 1.00 out of 1.00
```

Write a program to check if two <u>strings</u> are balanced. For example, <u>strings</u> 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	True
PYnative	

Answer: (penalty regime: 0 %)

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

Passed all tests! 🗸

Correct

```
Question 2
Correct
Mark 1.00 out of 1.00
```

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 %)

```
1 | sl=input() | s2=input() | result="" | for char in s1: | if char not in s2: | result +=char | print(result) | result | result
```

	Input	Expected	Got	
~	experience enc	xpri	xpri	~

Passed all tests! ✓



```
Question 3
Correct
Mark 1.00 out of 1.00
```

Two string values S1, S2 are passed as the input. The program must print first N characters present in S1 which are also present in S2.

Input Format:

The first line contains S1.

The second line contains S2.

The third line contains N.

Output Format:

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

Boundary Conditions:

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

Example Input/Output 1:

Input:

abcbde

cdefghbb

3

Output:

bcd

Note:

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

Answer: (penalty regime: 0 %)

```
s1=input()
    s2=input()
    n=int(input())
    unique_chars="
found_chars=""
 4
 5
    for char in s1:
6 ▼
7 ,
         if char in s2 and char not in found_chars:
8
             unique_chars +=char
9
             found_chars +=char
10
             if len(unique_chars)==n:
11
                 break
   print(unique_chars)
```

	Input	Expected	Got	
~	abcbde cdefghbb 3	bcd	bcd	~

Passed all tests! ✓

Correct

Question 4
Correct
Mark 1.00 out of 1.00

Reverse a string without affecting special characters

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

Input:

A&B

Output:

В&А

Explanation: As we ignore '&' and

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

For example:

Input	Result
A&x#	x&A#

Answer: (penalty regime: 0 %)

```
1  | s=input()
2  | letters=[c for c in s if c.isalpha()]
3  | letters.reverse()
4  it=iter(letters)
5  | result= ''.join(next(it)if c.isalpha() else c for c in s)
6  | print(result)
```

	Input	Expected	Got	
~	A&B	B&A	B&A	~

Passed all tests! ✓

Correct

```
Question 5
Correct
Mark 1.00 out of 1.00
```

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 %)

```
input_string=input()
    count_letters=0
3
    count_digits=0
4
    count_special=0
5 * for char in input_string:
        if char.isdigit():
6 ,
 7
           count_digits +=1
        elif char.isalpha():
8 🔻
9
           count_letters +=1
10
11
            count_special +=1
    print(count_letters)
12
13
    print(count_digits)
   print(count_special)
```

	Input	Expected	Got	
~	rec@123	3	3	~
		3	3	
		1	1	
~	P@#yn26at^&i5ve	8	8	~
		3	3	
		4	4	
~	abc@12&	3	3	~
		2	2	
		2	2	
1	I .	I		

Passed all tests! <

Correct

```
Question 6
Correct
Mark 1.00 out of 1.00
```

Assume that the given string has enough memory.

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

Sample Input 1

a2b4c6

Sample Output 1

aabbbbcccccc

Answer: (penalty regime: 0 %)

```
input_string = input()
   output_string = ''
3 i = 0
4 while i< len(input_string):
        char = input_string[i]
5
        i +=1
6
7
        number = 0
8
        while i<len(input_string) and input_string[i].isdigit():</pre>
            number = number*10+int(input_string[i])
9
10
            i+=1
        output_string += char*number
11
   print(output_string)
```

	Input	Expected	Got	
~	a2b4c6	aabbbbccccc	aabbbbccccc	~
~	a12b3d4	aaaaaaaaaabbbdddd	aaaaaaaaaabbbdddd	~

Passed all tests! <

Correct

```
Question 7
Correct
Mark 1.00 out of 1.00
```

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 %)

```
text=input().lower()

words=text.split()

non_palindrome =[]

for word in words:
    if word !=word[::-1]:
        non_palindrome.append(word)

print(" ".join(non_palindrome))
```

	Input	Expected	Got		
~	Malayalam is my mother tongue	is my mother tongue	is my mother tongue	~	

Passed all tests! <

Correct

```
Question 8
Correct
Mark 1.00 out of 1.00
```

Given a string S which is of the format USERNAME@DOMAIN.EXTENSION, the program must print the EXTENSION, DOMAIN, USERNAME in the reverse order.

Input Format:

The first line contains S.

Output Format:

The first line contains EXTENSION.
The second line contains DOMAIN.
The third line contains USERNAME.

Boundary Condition:

1 <= Length of S <= 100

Example Input/Output 1:

Input:

abcd@gmail.com

Output:

com

gmail

abcd

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	abcd@gmail.com	com	com	~
		gmail	gmail	
		abcd	abcd	

Passed all tests! ✓

Correct

Question 9
Correct
Mark 1.00 out of 1.00

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	TECHNOLOGIES
Hello World	WORLD
Hello	LESS

Answer: (penalty regime: 0 %)

```
sentence=input()
words=sentence.split()
if len(words) <2:
    result ="LESS"
else:
    result=words[1].upper()
print(result)</pre>
```

	Input	Expected	Got	
~	Wipro Technologies Bangalore	TECHNOLOGIES	TECHNOLOGIES	~
~	Hello World	WORLD	WORLD	~
~	Hello	LESS	LESS	~

Passed all tests! ✓

Correct

```
Question 10
Correct
Mark 1.00 out of 1.00
```

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: 0 %)

```
b='
2 •
   try:
       while True:
3
4
           a=input()
            if a not in b:
5
               print(a)
6
7
                b+=a
8 ,
   except:
9
       pass
```

	Input	Expected	Got	
~	first	first	first	~
	second	second	second	
	first	third	third	
	third			
	second			
~	rec	rec	rec	~
	cse	cse	cse	
	it	it	it	
	rec			
	cse			

Passed all tests! 🗸

Correct

■ Week5_MCQ

Jump to...

List ►

Dashboard / My courses / PSPP/PUP / Experiments based on Lists and its operations. / Week6 Coding

Started on	Tuesday, 14 May 2024, 4:40 PM
State	Finished
Completed on	Tuesday, 14 May 2024, 6:07 PM
Time taken	1 hour 26 mins
Marks	10.00/10.00
Grade	100.00 out of 100.00

```
Question 1
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

 $\ensuremath{\text{N2}}$ - 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

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

Passed all tests! 🗸

Correct

```
Question 2
Correct
Mark 1.00 out of 1.00
```

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

Input: m : row size n: column size

list1 and <u>list</u> 2: Two lists

Output

Zipped List: List which combined both list1 and list2

Sample test case

Sample input

2

2

3

5

7

4

6

8

Sample Output

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

```
a=int(input())
   b=int(input())
   a1=[]
b1=[]
 3
4
5
   a2=[]
6 b2=[]
    c2=[]
8 v for i in range(a*b):
        a1.append(int(input()))
10 v for i in range(b*a):
11
        b1.append(int(input()))
   a2.extend(a1[:b])
12
   a2.extend(b1[:b])
13
   b2.extend(a1[b:])
14
15
    b2.extend(b1[b:])
   c2.append(a2)
16
17
   c2.append(b2)
18 print(c2)
```

	Input	Ехре	ecte	ed						Got								
~	2	[[1,	2,	5,	6],	[3,	4,	7,	8]]	[[1,	2,	5,	6],	[3,	4,	7,	8]]	~
	2																	
	1																	
	2																	
	3																	
	4																	
	5																	
	6																	
	7																	
	8																	

Passed all tests! 🗸

Correct

```
Question 3
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 <u>list</u> and also print the total number of times it occurs in the <u>list</u>. 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.

```
n=int(input())
1
    1=[]
2
    for i in range(n):
3 ,
        1.append(int(input()))
5
    a=int(input())
   b=[]
6
7
   c=0
8 v for i in range(n):
9 •
        if 1 [i]==a:
10
            c+=1
            h annend(i+1)
```

```
if (c==0):
    print(a,"is not present in the array.")

14 v else:
    for i in b:
        print(a,"is present at location %d."%i)
    print(a,"is present %d times in the array."%len(b))
```

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

Passed all tests! <

Correct

Question 4
Correct
Mark 1.00 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

- $\cdot \qquad 3 \le n \le 10^5$
- · $1 \le arr[i] \le 2 \times 10^4$, where $0 \le i < n$
- · 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 $0 \le i < n$.

Sample Case 0

Sample Input 0

4

1

2

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	2
1	
2	
3	
3	
3	1
1	
2	
1	

Answer: (penalty regime: 0 %)

```
n=int(input())
   1=[]
2
3 s=0
4 sr=0
5 * for i in range(n):
6
        1.append(int(input()))
7 v for i in 1:
8
        s=s+i
9 •
    for i in 1:
10
        sr=sr+i
11 •
        if sr!=s:
12
            s=s-i
13 ,
        else:
            print(l.index(i))
14
```

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

Passed all tests! ✓

Correct

```
Question 5
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:

1234

Example Input:

6

1

1

2

3

3

Output:

123

For example:

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

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

Passed all tests! ✓

Correct

```
Question 6
Correct
Mark 1.00 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

1

3

5

99

Output

0

For example:

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

	Input	Expected	Got	
~	1	1	1	~
	3			
	1			
	3			
	5			
	4			
~	1	0	0	~
	3			
	1			
	3			
	5			
	99			

Passed all tests! ✓

Correct

```
Question 7
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 %)

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

Passed all tests! 🗸

Correct

```
Question 8
Correct
Mark 1.00 out of 1.00
```

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

Input:

n: Number of elements

List1: List of values

Output

Print "True" if <u>list</u> is strictly increasing or decreasing else print "False"

Sample Test Case

Input

7

1

2

3

0

4

5

6

Output

True

```
n=int(input())
 1
 2
    11=[]
    for i in range(n):
3 •
        11.append(int(input()))
5
    la=sorted(l1)
 6
    lb=sorted(l1,reverse=True)
    if l1==la or l1==lb:
7 🔻
 8
        print(True)
9 🔻
    else:
10
        for i in range(len(l1)):
11
12
            b=l1.pop(i)
            12a=sorted(11)
13
            12b=sorted(11,reverse=True)
14
            if l1==l2a or l1==l2b:
15
16
                f=1
17
                break
18
            else:
19
                l1.insert(i,b)
20
        if (f==0):
21
            print(False)
22
        else:
23
            print(True)
```

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

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

Passed all tests! 🗸

Correct

Question **9**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 <u>list</u>, 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

Input	Result
1	1
1	

Answer: (penalty regime: 0 %)

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

Passed all tests! 🗸

Correct

Question 10
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

•

,

Output

ITEM to be inserted:2

After insertion array is:

Test Case 2

Input

Output

ITEM to be inserted:44

After insertion array is:

Answer: (penalty regime: 0 %)

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

■ Week6_MCQ

Jump to...

Tuples -

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Experiments based on Tuples, Sets and its operations</u> / <u>Week7 Coding</u>

Started on	Sunday, 26 May 2024, 6:55 PM
State	Finished
Completed on	Tuesday, 28 May 2024, 6:18 PM
Time taken	1 day 23 hours
Marks	5.00/5.00
Grade	100.00 out of 100.00

```
Question 1
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

12865

26810

Sample Output:

1 5 10

3

Sample Input:

5 5

12345

12345

Sample Output:

NO SUCH ELEMENTS

For example:

Input					R	es	ult
5	4				1	5	10
1	2	8	6	5	3		
2	6	8	16	9			

```
arr1size,arr2size=map(int,input().split())
   arr1=list(map(int,input().split()))
3
   arr2=list(map(int,input().split()))
  set1=set(arr1)
5
   set2=set(arr2)
   nonrep=set1.symmetric_difference(set2)
6
7 ,
   for element in nonrep:
8
       print(element,end=" ")
   print()
9
  print(len(nonrep))
```

	Input	Expected	Got	
~	5 4	1 5 10	1 5 10	~
	1 2 8 6 5	3	3	
	2 6 8 10			
~	3 3	11 12	11 12	~
	10 10 10	2	2	
	10 11 12			

Passed all tests! 🗸

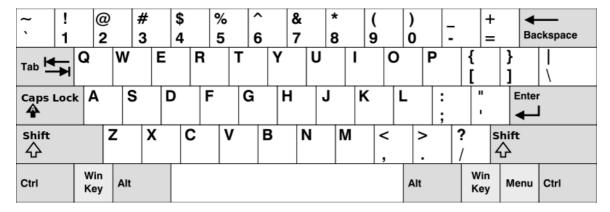
Correct

```
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 "gwertyuiop",
- 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

```
row1=set('qwertyuiop')
1
    row2=set('asdfghjkl')
    row3=set('zxcvbnm')
3
    num_words=int(input())
    found=False
5
6
    for _ in range(num_words):
7
        word=input()
8
        word_lower=word.lower()
9
        if all(char in row1 for char in word_lower) or\
10
           all(char in row2 for char in word_lower) or \
           all(char in row3 for char in word_lower):
11
12
               print(word)
```

```
toung=Irue

14 v if not found:

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

```
Question 3
Correct
Mark 1.00 out of 1.00
```

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

Example 1:

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

Example 2:

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

```
Output: 3
```

For example:

Input	Result	
1 3 4 4 2	4	

Answer: (penalty regime: 0 %)

```
1 ▼ def find_dup(nums):
2
       seen=set()
3
       for num in nums:
           if num in seen:
4
5
               return num
           seen.add(num)
6
7
       return -1
   nums=list(map(int,input().split()))
8
   print(find_dup(nums))
```

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

Passed all tests! <

Correct

```
Question 4
Correct
Mark 1.00 out of 1.00
```

Given a tuple and a positive integer k, the task is to find the count of distinct pairs in the tuple whose sum is equal to K.

Examples:

```
Input: t = (5, 6, 5, 7, 7, 8), K = 13

Output: 2

Explanation:

Pairs with sum K( = 13) are {(5, 8), (6, 7), (6, 7)}.

Therefore, distinct pairs with sum K( = 13) are { (5, 8), (6, 7) }.

Therefore, the required output is 2.
```

For example:

Input	Result
1,2,1,2,5	1
1,2 0	0

Answer: (penalty regime: 0 %)

```
t=tuple(map(int,input().split(',')))
k=int(input())
paircount={}

for i in range(len(t)):
    for j in range(i+1,len(t)):
        pairsum=t[i]+t[j]
    if pairsum=ek:
        paircount[(min(t[i],t[j],max(t[i],t[j])))]=paircount.get

distinctpair=len(paircount)
print(distinctpair)
```

	Input	Expected	Got	
~	5,6,5,7,7,8 13	2	2	~
~	1,2,1,2,5	1	1	~
~	1,2	0	0	~

Passed all tests! <

Correct

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 %)

```
input_str=input()
unique_chars=set(input_str)
input_str=input()
input_str=input
```

	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 ►

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Experiments based on Dictionary and its operations.</u> / <u>Week8 Coding</u>

Started on	Tuesday, 28 May 2024, 11:28 PM
State	Finished
Completed on	Tuesday, 28 May 2024, 11:32 PM
Time taken	3 mins 56 secs
Marks	5.00/5.00
Grade	100.00 out of 100.00

```
Question 1
Correct
Mark 1.00 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^m score for a word. Create a <u>dictionary</u> that maps from letters to point values. Then use the <u>dictionary</u> 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.

```
1 v scrabble_points = {
         'A': 1, 'E': 1, 'I': 1, 'L': 1, 'N': 1, 'O': 1, 'R': 1, 'S': 1, 'T': 1, 'U': 1,
 2
         'D': 2, 'G': 2,
'B': 3, 'C': 3, 'M': 3, 'P': 3,
 3
 4
 5
         'F': 4, 'H': 4, 'V': 4, 'W': 4, 'Y': 4,
         'K': 5,
 6
 7
         'J': 8, 'X': 8,
         'Q': 10, 'Z': 10
8
 9
    }
10
    word = input().strip().upper()
11
12
13
    score = 0
14
15
    for letter in word:
         score += scrabble_points.get(letter, 0)
16
17
    print(f"{word} is worth {score} points.")
18
19
```

	Input	Expected	Got	
~	GOD	GOD is worth 5 points.	GOD is worth 5 points.	~

	Input	Expected	Got	
~	REC	REC is worth 5 points.	REC is worth 5 points.	~

Passed all tests! 🗸

Correct

```
Question 2
Correct
Mark 1.00 out of 1.00
```

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

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	Gfg 17 Best 18
Best 7 6 5	

```
n = int(input().strip())
    test_cases = {}
 3
 4
    for _ in range(n):
5 ,
        key, *values = input().strip().split()
 7
8
        values = list(map(int, values))
9
10
        test_cases[key] = sum(values)
11
12
    sorted_test_cases = dict(sorted(test_cases.items(), key=lambda item: item[1]))
13
14
    for key, value in sorted_test_cases.items():
15
        print(key, value)
16
```

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

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

Passed all tests! ✓

Correct

```
Question 3
Correct
Mark 1.00 out of 1.00
```

Create a student <u>dictionary</u> 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	Ram
James 67 89 56	James Ram
Lalith 89 45 45	Lalith
Ram 89 89 89	Lalith
Sita 70 70 70	

```
1 v def compute_student_statistics(n, student_data):
 2
        students = {}
 3
 4
        for data in student_data:
 5
            parts = data.split()
 6
            name, marks = parts[0], list(map(int, parts[1:]))
 7
            students[name] = marks + [sum(marks) / 3]
 8
 9
        highest_avg, highest_assign, lowest_lab, lowest_avg = [], [], []
10
        highest_avg_score = highest_assign_score = float('-inf')
11
        lowest_lab_score = lowest_avg_score = float('inf')
12
        for name, marks in students.items():
13
14
            avg_score = marks[3]
15
16
            if avg_score > highest_avg_score:
17
                highest_avg, highest_avg_score = [name], avg_score
            elif avg_score == highest_avg_score:
18
19
                highest_avg.append(name)
```

```
20
21
             if marks[1] > highest_assign_score:
22
                 highest_assign, highest_assign_score = [name], marks[1]
23
             elif marks[1] == highest_assign_score:
24
                 highest_assign.append(name)
25
26
             if marks[2] < lowest_lab_score:</pre>
27
                 lowest_lab, lowest_lab_score = [name], marks[2]
28
             elif marks[2] == lowest_lab_score:
                 lowest_lab.append(name)
29
30
             if avg_score < lowest_avg_score:</pre>
31 ,
32
                 lowest_avg, lowest_avg_score = [name], avg_score
             elif avg_score == lowest_avg_score:
33
34
                 lowest_avg.append(name)
35
        print(' '.join(sorted(highest_avg)))
print(' '.join(sorted(highest_assign)))
36
37
        print(' '.join(sorted(lowest_lab)))
38
        print(' '.join(sorted(lowest_avg)))
39
40
41
    n = int(input().strip())
    student_data = [input().strip() for _ in range(n)]
42
43
    compute_student_statistics(n, student_data)
44
45
```

	Input	Expected	Got	
~	4 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! <

11

Correct

```
Question 4
Correct
Mark 1.00 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	sweet sour
this apple is sour	

```
s1 = input().strip()
    s2 = input().strip()
3
4
    words1 = s1.split()
    words2 = s2.split()
5
6
7
    freq1 = {}
8
    freq2 = {}
9
10 v for word in words1:
        if word in freq1:
11 ,
12
            freq1[word] += 1
13
        else:
            freq1[word] = 1
14
15
    for word in words2:
16
        if word in freq2:
17
18
            freq2[word] += 1
19
        else:
20
            freq2[word] = 1
21
22
    uncommon_words = []
23 •
    for word in freq1:
        if freq1[word] == 1 and word not in freq2:
24
25
            uncommon_words.append(word)
26
27
    for word in freq2:
        if freq2[word] == 1 and word not in freq1:
28
            uncommon_words.append(word)
29
30
   print(" ".join(uncommon_words))
```

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

Passed all tests! 🗸

Correct

```
Question 5
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:

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 <u>dictionary</u> to solve the above problem

Sample Input:

10

John

John

Johny

Jamie

Jamie

Johny

Jack

Johny

Johny

Jackie

Sample Output:

Johny

```
1
   n = int(input().strip())
2
3
   vote_count = {}
4
5 🔻
   for _ in range(n):
6
       candidate = input().strip()
       if candidate in vote_count:
7 .
8
            vote_count[candidate] += 1
9 •
       else:
```

```
10
            vote_count[candidate] = 1
11
12
    max_votes = 0
13
    winner = ""
14
15 • for candidate, votes in vote_count.items():
        if votes > max_votes or (votes == max_votes and candidate < winner):</pre>
16 🔻
            max_votes = votes
17
18
            winner = candidate
19
    print(winner)
20
21
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

■ Week8_MCQ

Jump to...

Functions -

Dashboard / My courses / PSPP/PUP / Functions: Built-in functions, User-defined functions, Recursive functions / Week9 Coding

Started on	Tuesday, 28 May 2024, 6:26 PM
State	Finished
Completed on	Tuesday, 28 May 2024, 7:11 PM
Time taken	45 mins 15 secs
Marks	5.00/5.00
Grade	100.00 out of 100.00

```
Question 1
Correct
Mark 1.00 out of 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".

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: 7 Output: Not Automorphic Example input: 7 Output: Not Automorphic

For example:

Test	Result
<pre>print(automorphic(5))</pre>	Automorphic

Answer: (penalty regime: 0 %)

Reset answer

```
1 ▼ def automorphic(number):
        if number<0:</pre>
            return "Invalid input"
3
4
        square=number*number
5
        number_str=str(number)
6
        square_str=str(square)
        if square_str.endswith(number_str):
7 ,
8
            return "Automorphic"
9 .
        else:
10
            return "Not Automorphic"
```

	Test	Expected	Got	
~	<pre>print(automorphic(5))</pre>	Automorphic	Automorphic	~
~	print(automorphic(7))	Not Automorphic	Not Automorphic	~

Passed all tests! ✓

Correct

```
Question 2
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, ...] is the sequence of ugly numbers.

Task

complete the function which takes a number n as input and checks if it's an ugly number.

return ugly if it is ugly, else return not ugly

Hint:

An ugly number U can be expressed as: $U = 2^a * 3^b * 5^c$, where a, b and c are nonnegative integers.

For example:

	Test	Result
	print(checkUgly(6))	ugly
ſ	print(checkUgly(21))	not ugly

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 

def checkUgly(n):
 2 ,
        def is_ugly(num):
3 ,
            if num <= 0:
 4
                return False
5 🔻
             while num %2 == 0:
 6
                 num //= 2
             while num % 3 == 0:
7 •
8
                 num //=3
9 ,
             while num % 5 == 0:
10
                 num //= 5
11
            return num == 1
12 🔻
        if is_ugly(n):
13
            return 'ugly'
14
15
             return 'not ugly'
```

	Test	Expected	Got	
~	print(checkUgly(6))	ugly	ugly	~
~	<pre>print(checkUgly(21))</pre>	not ugly	not ugly	~

Passed all tests! ✓

Correct

```
Question 3
Correct
Mark 1.00 out of 1.00
```

complete function to implement coin change making problem i.e. finding the minimum

number of coins of certain denominations that add up to given amount of money.

The only available coins are of values 1, 2, 3, 4

Input Format:

Integer input from stdin.

Output Format:

return the minimum number of coins required to meet the given target.

Example Input

16

Output:

4

Explanation:

We need only 4 coins of value 4 each

Example Input:

25

Output:

7

Explanation:

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

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 ▼ def coinChange(target):
       coins=[1,2,3,4]
2
3
       dp=[float('inf')]*(target+1)
4
       dp[0]=0
5
       for i in range(1,target+1):
           for coin in coins:
6
7
                if coin <=i:</pre>
                    dp[i]=min(dp[i],dp[i-coin]+1)
8
       return dp[target]
```

	Test	Expected	Got	
~	<pre>print(coinChange(16))</pre>	4	4	~

Passed all tests! <

Correct

Question **4**Correct
Mark 1.00 out of 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.

Constraints

1 <= orderValue< 10e100000

Input

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

Output

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

Example Input

578

Output

12

For example:

Test	Result
<pre>print(christmasDiscount(578))</pre>	12

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 v def is_prime_digit(digit):
        return digit in [2,3,5,7]
3 ▼ def christmasDiscount(n):
4
        discount=0
        prime_digits=[2,3,5,7]
5
6
        for digit in str(n):
7
            digit=int(digit)
8
            if is_prime_digit(digit):
9
                discount+=digit
10
        return discount
```

	Test	Expected	Got	
✓	<pre>print(christmasDiscount(578))</pre>	12	12	~

Passed all tests! <

Correct

```
Question 5
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:

1

Explanation:

Here, sum of even digits is 4 + 3 = 7

sum of odd digits is 1 + 5 = 6.

Difference is 1.

Note that we are always taking absolute difference

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 ▼ def differenceSum(n):
 2
        N=str(n)
3
        b=c=0
4
        for i in range(len(N)):
5 🔻
            if i%2==0:
6
                b+=int(N[i])
7 ,
            else:
8
                c+=int(N[i])
        if b-c>=0:
9 •
10
            a=b-c
11 ,
        else:
            a=c-b
12
13
        return a
```

	Test	Expected	Got	
~	<pre>print(differenceSum(1453))</pre>	1	1	~

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00.

■ Week9_MCQ

```
Jump to...
```

Searching ►

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Searching techniques: Linear and Binary</u> / <u>Week10 Coding</u>

Started on	Sunday, 26 May 2024, 7:16 PM
State	Finished
Completed on	Sunday, 26 May 2024, 7:42 PM
Time taken	25 mins 42 secs
Marks	5.00/5.00
Grade	100.00 out of 100.00

```
Question 1
Correct
Mark 1.00 out of 1.00
```

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

An element a[i] is a peak element if

```
A[i-1] \le A[i] > =a[i+1] for middle elements. [0 \le i \le n-1]
```

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

A[i] > = A[i+1] for first element [i=0]

Input Format

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

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

Output Format

Print peak numbers separated by space.

Sample Input

5

891026

Sample Output

10 6

For example:

Input	Result
4	12 8
12 3 6 8	

```
1 v def findpeak(arr):
     n=len(arr)
3
     peaks=[]
4
     for i in range(n):
        5 ,
6
          peaks.append(arr[i])
7
     return peaks
8
  n=int(input())
9
  arr=list(map(int,input().split()))
  peakele=findpeak(arr)
print(" ".join(map(str,peakele)))
  4
```

	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

```
Question 2
Correct
Mark 1.00 out of 1.00
```

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

Input Format

The first line contains a single integer n , the length of <u>list</u>

The second line contains n space-separated integers, <u>list[i]</u>.

The third line contains integer k.

Output Format

Print Yes or No.

Sample Input

7 0 1 2 4 6 5 3

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

```
1 n=int(input())
    nums=list(map(int,input().split()))
 3
    k=int(input())
4 ▼ def hassum(n,nums,k):
 5
        numset=set()
 6 ,
        for num in nums:
 7 ,
            if k-num in numset:
                return "Yes"
8
            numset.add(num)
10
        return "No"
   print(hassum(n,nums,k))
```

	Input	Expected	Got	
~	5 8 9 12 15 3 11	Yes	Yes	~
~	6 2 9 21 32 43 43 1 4	No	No	~
~	6 13 42 31 4 8 9 17	Yes	Yes	~

Passed all tests! 🗸

Correct

```
Question 3
Correct
Mark 1.00 out of 1.00
```

To find the frequency of numbers in a <u>list</u> and display in sorted order.

Constraints:

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

Input:

1 68 79 4 90 68 1 4 5

output:

12

4 2

5 1

68 2

79 1

90 1

For example:

ıpı	ut				R	esult
3	5	3	4	5	3	2
					4	2
					5	2
	÷	•	1put 3 5 3	<u> </u>	3 5 3 4 5	3 5 3 4 5 3 4

```
1 nums=list(map(int,input().split()))
2
   fre={}
3 ▼ for num in nums:
4 ▼
       if num in fre:
           fre[num]+=1
5
6 •
       else:
7
           fre[num]=1
8
   sortfre=dict(sorted(fre.items()))
   for num, freq in sortfre.items():
9 ,
       print(f"{num} {freq}")
```

	Input	Expected	Got	
~	4 3 5 3 4 5	3 2	3 2	~
		4 2	4 2	
		5 2	5 2	
~	12 4 4 4 2 3 5	2 1	2 1	~
		3 1	3 1	
		4 3	4 3	
		5 1	5 1	
		12 1	12 1	

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

Passed all tests! 🗸

Correct

Question 4
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 %)

	Input	Expected	Got	
~	1,2,3,5,8	False	False	~
~	3,5,9,45,42 42	True	True	~
~	52,45,89,43,11 11	True	True	~

Passed all tests! ✓

Correct

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

Write a Python program to sort a <u>list</u> of elements using the merge sort algorithm.

For example:

Input	Result			
5	3 4 5 6 8			
6 5 4 3 8				

Answer: (penalty regime: 0 %)

```
h=int(input())
a=list(map(int,input().split()))
a_a.sort()
print(' '.join(map(str,a)))
```

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

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00.

■ Week10_MCQ

Jump to...