# RAJALAKSHMI ENGINEERING COLLEGE

RAJALAKSHMI NAGAR, THANDALAM - 602 105



# GE23231 PROGRAMMING USING PYTHON

# **Record Note Book**

Name: Nandhini M

Register. No: 2116230601029

Year: I

Semester: II

**Department:** CIVIL ENGINEERING

Academic Year: 2023-2024

# <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, 10:56 AM
State	Finished
Completed on	Thursday, 14 March 2024, 11:12 AM
Time taken	15 mins 24 secs
Grade	<b>10.00</b> out of 10.00 ( <b>100</b> %)
Question 1	
Correct	
Mark 1.00 out of 1.00	
Which of the follow	ing <u>functions</u> is a built-in function in python language?
a. printf()	
b. print()	
c. scanf()	
○ d. val()	
Your answer is corre	
The correct answer print()	IS:
print()	
Question <b>2</b>	
Correct	
Mark 1.00 out of 1.00	
What will be the da	tatype of the var in the below code snippet?
var = 10	
print(type(var))	
var = "Hello"	
print(type(var))	
a. float and s	tr
<ul><li>b. int and int</li></ul>	
c. int and str	
od. No output	
Your answer is corre	ect.
The correct answer	
int and str	<del></del>

06/2024, 16:41	Week1_Quiz: Attempt review   REC-PS
Question <b>3</b>	
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)	
13	
○ b. 31	
3 1	
○ c. 13	
3 1	
od. No output	
Your answer is correct.	
The correct answer is:	
3 1	
13	
Question <b>4</b>	
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))	
F(4) F.()	
a. 'str'	
○ c. str	
od. class str	
Your answer is correct.	
The correct answer is: <class 'str'=""></class>	
TOWNS SULE	

Question <b>5</b>
Correct
Mark 1.00 out of 1.00
Who developed the Python language?
○ a. Von Neumann
○ c. Dennis Ritchie
○ d. Bill Gates
Your answer is correct.
The correct answer is:
Guido Van Rossum
Question <b>6</b>
Correct
Mark 1.00 out of 1.00
Type the code to get float input from the keyboard. (No need to assign to a variable)
Answer: float(input())
Answer: float(input())
The correct answer is: float(input())
The correct answer is: float(input())  Question 7
The correct answer is: float(input())  Question 7  Correct
The correct answer is: float(input())  Question 7
The correct answer is: float(input())  Question 7  Correct  Mark 1.00 out of 1.00
The correct answer is: float(input())  Question 7  Correct  Mark 1.00 out of 1.00  What will be the output of the following code snippet?
The correct answer is: float(input())  Question 7  Correct  Mark 1.00 out of 1.00
The correct answer is: float(input())  Question 7  Correct  Mark 1.00 out of 1.00  What will be the output of the following code snippet?
The correct answer is: float(input())  Question 7  Correct  Mark 1.00 out of 1.00  What will be the output of the following code snippet?
The correct answer is: float(input())  Question 7  Correct  Mark 1.00 out of 1.00  What will be the output of the following code snippet?  print(type(5 / 2))
The correct answer is: float(input())  Question 7 Correct Mark 1.00 out of 1.00  What will be the output of the following code snippet? print(type(5 / 2))  a. obj
The correct answer is: float(input())  Question 7  Correct  Mark 1.00 out of 1.00  What will be the output of the following code snippet?  print(type(5 / 2))  a. obj  b. int
The correct answer is: float(input())  Question 7 Correct Mark 1.00 out of 1.00  What will be the output of the following code snippet? print(type(5 / 2))  a. obj b. int c. str
The correct answer is: float(input())  Question 7  Correct  Mark 1.00 out of 1.00  What will be the output of the following code snippet?  print(type(5 / 2))  a. obj  b. int  c. str  d. float ✓
The correct answer is: float(input())  Ouestion 7  Correct  Mark 1.00 out of 1.00  What will be the output of the following code snippet?  print(type(5 / 2))  a. obj b. int c. str d. float ✓  Your answer is correct.
The correct answer is: float(input())  Question 7  Correct  Mark 1.00 out of 1.00  What will be the output of the following code snippet?  print(type(5 / 2))  a. obj  b. int  c. str  d. float ✓

Question <b>8</b>		
Correct		
Mark 1.00 out of 1.00		

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

- a. .python
- b. .p
- С. .срр
- d. .py 

  ✓

Your answer is correct.

The correct answer is:

.ру

Question **9** 

Correct

Mark 1.00 out of 1.00

Which of the following declarations is incorrect in python language?

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

Your answer is correct.

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

Jump to...

•	_ ·	·
Question <b>10</b> Correct Mark 1.00 out of		
What do we	we use to define a block of code in Python language?	
a. Key	Key	
O b. Pare	Parenthesis	
© c. Inde	Indentation 🗸	
O d. Cur	Curly brace	
Your answer	wer is correct.	
The correct a	ect answer is: ion	
■ Basics of	ss of Python	

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	Saturday, 23 March 2024, 7:44 PM
State	Finished
Completed on	Saturday, 23 March 2024, 8:06 PM
Time taken	21 mins 37 secs
Grade	<b>15.00</b> out of 15.00 ( <b>100</b> %)
Question 1	
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 False

True

b. False

True C. True

False False

d. True True True

Your answer is correct.

The correct answer is:

True

False

True

Question <b>2</b>	
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. 24.0 
  ✓
- O b. 12
- oc. 19
- od. 19.0

Your answer is correct.

The correct answer is:

24.0

Question 3

Correct

Mark 1.00 out of 1.00

What is the output of the following assignment operator?

y = 10

x = y += 2

print(x)

- a. 10
- O b. 12
- Od. 14

Your answer is correct.

The correct answer is:

Syntax Error

6/2024, 16:42	Week2_MCQ: Attempt review   REC-PS
Question <b>4</b>	
Correct	
Mark 1.00 out of 1.00	
What is the two's complement of -44?	
o a. 1011011	
b. 11010100   ✓	
○ c. 11101011	
O d. 10110011	
Your answer is correct.	
The correct answer is:	
11010100	
Question <b>5</b>	
Correct	
Mark 1.00 out of 1.00	
What is the value of the expression	
print(100 / 25)	
print(100//25)	
a. 4.0	
4.00	
O b. 4.0	
4.0	
© c. 4.0 ✓	
4	
O d. 4	
4	
Your answer is correct.	
The correct answer is:	
4.0	

Question <b>6</b>	
Correct	
Mark 1.00 out of 1.00	

What is the output of the following code x = ["apple", "banana", "cherry"] #display the data type of x: print(type(x)) a. <class 'complex'> ○ b. <class 'int'> C. <class '<u>list</u>'> ○ d. <class 'float'> Your answer is correct. The correct answer is:

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

06/2024, 16:42	Week2_MCQ: Attempt review   REC-PS
Question <b>7</b>	
Correct	
Mark 1.00 out of 1.00	
Which is the following is an Arithmetic energtor in Duti	hon?
Which is the following is an Arithmetic operator in Pytl	IOTT:
<ol> <li>// (floor division) operator</li> <li>&amp; (binary and) operator</li> </ol>	
3. ~ (navigation) operator	
4. >> (right shift) operator	
O a. 3	
O b. 4	
O d. 2	
Your answer is correct.	
The correct answer is:  1	
•	
Question <b>8</b>	
Correct	
Mark 1.00 out of 1.00	
Which of the following type of Python operator will on	aly print True or False in output when we use it in our program?
which of the following type of Fythor operator will on	ly print frac of raise in output when we are it in our program.
a. Membership Operator	
Membership Operator	
A with resting On system	
<ul><li>b. Arithmetic Operator</li></ul>	
c. Assignment Operator	
<ul><li>◎ d. Comparison Operator ✓</li></ul>	
Your answer is correct.	
The correct answers are:	
Membership Operator,	

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Comparison Operator

Question 9
Correct
Mark 1.00 out of 1.00

#### Which of the following statements assigns the value 35 to the variable $\boldsymbol{x}$ in Python:

- a. int x = 35
- O b. x ← 35
- c. **x := 35**
- d. x = 35

Your answer is correct.

The correct answer is:

x = 35

Question 10

Correct

Mark 1.00 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 expression
- b. terms, a group
- operators, a statement
- d. operands, an equation

Your answer is correct.

The correct answer is: operands, an expression



What is the output of the following code



- a. 0
  - 64
- ob. 64
  - 8
  - 4
- © c. 64 ✓
  - 4
- Od. 64
  - 0

Your answer is correct.

The correct answer is:

64

4

Question 12

Correct

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. 12273 
  ✓
- b. -24568
- o. 12493
- od. -23679

Your answer is correct.

The correct answer is:

12273

```
Question 13
Correct
Mark 1.00 out of 1.00
```

Which among the following  $\underline{\text{list}}$  of  $\underline{\text{operators}}$  has the highest precedence?

```
+, -, **, %, /, <<, >>, |
```

- a. \*\* ✓
- b.
- O c. <<,>>
- Od. %

Your answer is correct.

The correct answer is:

\*\*

```
Question 14
Correct
```

Mark 1.00 out of 1.00

What is the output of the following code

x = 1j

#display x:

print(x)

#display the data type of x:

print(type(x))

- a. lj.0 <class 'float'>
- b. lj 
  <class 'complex'>
- c. lj <class 'object'>
- d. I
   <class 'int'>

Your answer is correct.

The correct answer is:

Ιj

<class 'complex'>

	West Ender A west Frederick Trees to
Question <b>15</b>	
Correct	
Mark 1.00 out of 1.00	
What will be the output of statement 2**2**2**2	
a. 32768	
○ c. 16	
O d. 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	Friday, 29 March 2024, 8:58 AM
State	Finished
	Friday, 29 March 2024, 9:10 AM
	12 mins 21 secs
Grade	<b>15.00</b> out of 15.00 ( <b>100</b> %)
Question <b>1</b>	
Correct	
Mark 1.00 out of 1.00	
What keyword wou	ld you use to add an alternative condition to an if statement?
a. elseif	
b. else if	
d. None of th	e above
Your answer is corre	ect.
The correct answer	is:
elif	
Question <b>2</b>	
Correct	
Mark 1.00 out of 1.00	
ic an o	mpty statement in Dython
15 all e	mpty statement in Python.
a. Empty	
o b. Jump	
C. None	
·	
Your answer is corre	ect.
The correct answer	is:
pass	

Question <b>3</b>
Correct
Mark 1.00 out of 1.00

What will be the output for the following code?

if False:

print("1001")

else:

print("2002")

a. 1001

b. 2002 
✓

c. syntax error

Your answer is correct.

The correct answer is: 2002

Question 4
Correct
Mark 1.00 out of 1.00

What is the output of the following code.

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

- a. REC 
  ✓
- b. falseREC
- C. REC
- d. No outputREC

Your answer is correct.

The correct answer is: REC

06/2024, 16:43	Week3_mcq: Attempt review   REC-PS		
Question <b>5</b>			
Correct			
Mark 1.00 out of 1.00			
What will be the output for the following code?			
if 1-1:			
print("python")			
else:			
print("0 is false")			
<ul><li>a. 0 is false ✓</li></ul>			
○ b. Error			
C. python			
Your answer is correct.			
The correct answer is:			
0 is false			
Question <b>6</b>			
Correct			
Mark 1.00 out of 1.00			
Correct cyntax of writing 'cimple if'	ctatement ic		

Correct syntax of writing 'simple it' statement is \_\_\_\_\_

a. if condition statements b. if condition: statements C. if condition -statements d. if (condition) statements

Your answer is correct.

The correct answer is:

if condition: statements

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

What is the output of the code given below?

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

a. 11

O b. 33

Od. 22

Your answer is correct.

The correct answer is:

44

Question <b>8</b>
Correct
Mark 1.00 out of 1.00

What is the output of the following code

x=3
if x>2 or x<5 and x==6:
print("ok")

else:

print("no output")

- a. ok 
  ✓
- b. error
- oc. None of the given option
- d. no output

Your answer is correct.

The correct answer is:

ok

Question 9
Correct
Mark 1.00 out of 1.00

# What is the output of the given below program?

```
a = 25
if a > 15:
    print("Hi")
if a <= 30:
    print("Hello")
else:
    print("Know Program")</pre>
```

a. HelloKnow Program

b. Hi 
 ✓
 Hello

c. Hello

O d. Hi Know Program

Your answer is correct.

The correct answer is:

Hi

Hello

Question 10			
Correct			
Mark 1.00 out of 1.0	0		

What is the output of the given below program?

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

print("Know Program")

a. Know Program

ob. Hello

c. Error

Od. Compiled Successfully, No Output.

Your answer is correct.

The correct answer is:

Know Program

```
Question 11
Correct
Mark 1.00 out of 1.00
```

What is the output of the following code.

```
a=90
if a>100:
    if(a<=90 and a==90):
        print("REC")
    else:
        print("OPEN-ELECTIVE")</pre>
```

- a. OPEN-ELECTIVE
- O b. REC
- C. REC OPEN-ELECTIVE
- d. No output ✓

Your answer is correct.

The correct answer is:

No output

Question **12**Correct
Mark 1.00 out of 1.00

```
if true:
    print("Hello World")
```

- a. No output
- b. Hello World

Your answer is correct.

The correct answer is:

Name Error

Question 13			
Correct			
Mark 1.00 out of 1.00			

\_\_\_\_ is an empty statement in Python.

- a. pass 

  ✓
- ob. None
- c. Empty
- d. Jump

Your answer is correct.

The correct answer is:

pass

Question 14

Correct

Mark 1.00 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. x will always equal 0 after this code executes for any value of x
- o b. if x is lesser then 0,x will be 0 after this code executes
- oc. if x is greater than 2, the value in x will be doubled after this code executes

Your answer is correct.

The correct answer is:

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

Question 15
Correct
Mark 1.00 out of 1.00

Number of elif in a program is dependent on the \_\_\_\_\_

- a. number of conditions to be checked
- b. All the Above
- C. number of variables in a program
- d. number of loops in a program

Your answer is correct.

The correct answer is:

number of conditions to be checked

→ Selection control structures

Jump to...

Week3\_coding ►

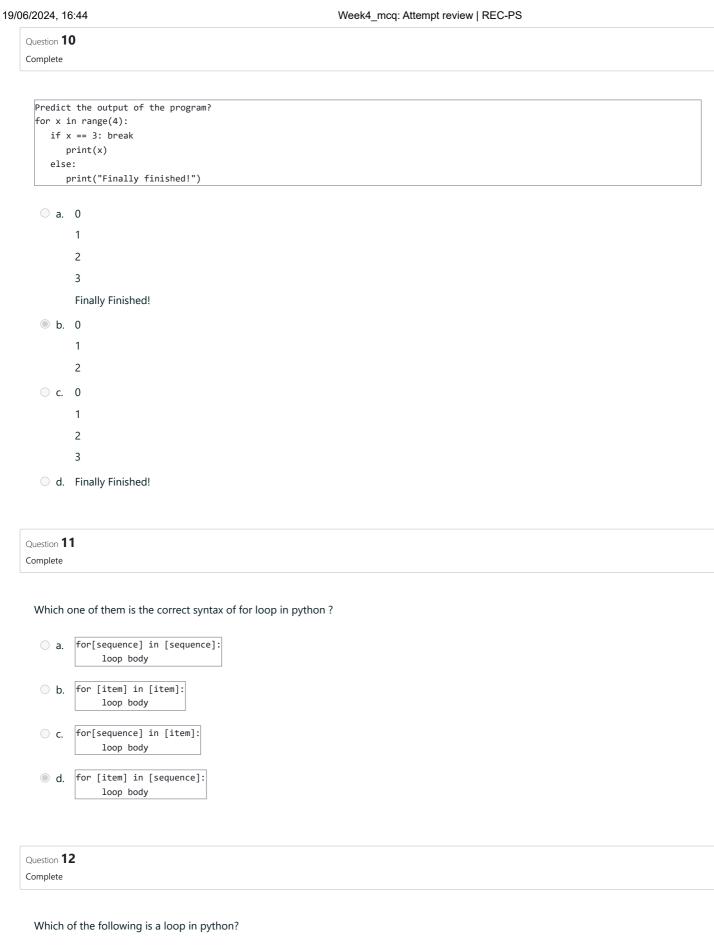
# <u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Algorithmic Approach: Iteration control structures.</u> / <u>Week4 mcq</u>

Started on	Sunday, 7 April 2024, 2:05 PM
	Finished
Completed on	Sunday, 7 April 2024, 2:13 PM
Time taken	8 mins 2 secs
estion <b>1</b>	
omplete	
True= False	
while(True):	
print(True break	;)
What is the output	t of the following?
a. True	
b. Syntax Err	or
C. No outpu	•
No outpu	
Od. False	
uestion <b>2</b>	
omplete	
Which of the follow	ring is an infinite loop?
a. while(0):	
b. while(1):	
c. while(i==2	):
d while(infini	

```
Question {\bf 3}
Complete
 Which one of them is the correct syntax of for loop in python?
  a. for [item] in [sequence]:
              loop body
  b. for [item] in [item]:
              loop body
  C. for[sequence] in [item]:
              loop body
  d. for[sequence] in [sequence]:
              loop body
Question 4
Complete
 Which is a counter-controlled in python?
  a. for
  ob. while
  o. do-while
  d. switch
Question 5
Complete
 The range() function by defaults increments by
 Answer:
Ouestion 6
Complete
 Predict the output of the following
 i = 2
 while i < 4:
     print(i)
     i += 1
  a. 1234
  b. 34
  o. 234
  d. 23
```

06/2024, 16:44	Week4_mcq: Attempt review   REC-PS
Question <b>7</b>	
Complete	
numbers = (8, 9, 11, 20)	
a = 1	
for num in numbers:	
<pre>a = a * num print(a)</pre>	
Predict the output of the program?	
Answer: 15840	
_	
Question <b>8</b>	
Complete	
The range() function returns a	
3 *	
a. sequence of lists	
b. sequence of numbers	
c. sequence of <u>set</u>	
od. sequence of bytes	
Question <b>9</b>	
Complete	
While loop can execute a set of statements till	
a. The condition stops executing	
<ul> <li>b. The condition starts executing</li> </ul>	

- o c. The condition is True
- Od. The condition is False



- a. If-Else
- b. For
- c. Break
- d. Do-While

```
Question 13
Complete
 i = 1
 while i < 4:
    print(i)
    if (i == 2):
      break
 i += 1
 Predict the output of the following?
  a. 1234
  b. 234
  c. Compiler Error
  d. 12
Question 14
Complete
 count = 0
 while(True):
    if count % 3 == 0:
      print(count, end = " ")
    if(count > 18):
      break:
    count += 1
 Predict the output of the program?
  a. 0 3 6 9 12 15 18
  Ob. 03691215
  c. Compilation error
  Od. 0391218
Question 15
Complete
 Which is a counter-controlled in python?
  a. while
  b. switch
  c. do-while
  d. for

◄ Iteration control structures

  Jump to...
```

Week4\_Coding ►

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

Started on	Tuesday, 7 May 2024, 6:39 PM	
State	Finished	
	Tuesday, 7 May 2024, 7:02 PM	
	22 mins 19 secs	
Grade	<b>15.00</b> out of 15.00 ( <b>100</b> %)	
Question <b>1</b>		
Correct		
Mark 1.00 out of 1.00		
What is the output	of the following Code?	
str1="arvijayakuma	r <sup>ii</sup>	
print(str1[2:7])		
Answer: vijay		
The correct answer	is: vijay	
Question <b>2</b>		
Correct		
Mark 1.00 out of 1.00		
What will followir	g Python code return?	
str1="Stack of books print(len(str1))		
<ul><li>a. 14 ✓ ler</li></ul>	n() returns the length of the given string str1, including spaces and considering " " as a single character.	
○ b. 15		
oc. 16		
O d. 13		
Your answer is corre	ect.	
The correct answer	is:	
14		

6/2024, 16:46	Week5_MCQ: Attempt review   REC-PS
Question <b>3</b>	
Correct	
Mark 1.00 out of 1.00	
What is the output of the following code?	
<pre>str1='vijayakumar' str2='.'</pre>	
str2= . str3=''	
<pre>print(str1[-1:])</pre>	
🔾 a. vijayakuma	
○ b. ramukayajiv	
c. None of the above	
⊚ d. 'r' ✓	
<b>3.</b> 1 3	
Your answer is correct.	
The correct answer is:	
<sup>1</sup> r <sup>i</sup>	
Question 4	
Correct	
Mark 1.00 out of 1.00	
What is the output of the following code?	
example = "arvijayakumar"	
example[0] = 'A'	
print example	
a. Arvijayakumar	
○ b. arvijayakumar	
⊚ c. Error ✓ <u>Strings</u> cannot be modified	
○ d. A	
Your answer is correct.	
The correct answer is:	
Error	

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19/06/2024, 16:46 Week5 MCQ: Attempt review | REC-PS Question  ${\bf 5}$ Correct Mark 1.00 out of 1.00 What is the output of the following code? line = "What will have so will" L = line.split('a') for i in L: print(i, end=' ') a. What will have so will b. Wh t will h split() will use 'a' as the delimiter. It'll create partition at 'a', thus split() return an array L, which is in ['Wh', 't will ve so will h', 've so will']. For loop will print the elements of the list. c. ['What', 'will', 'have', 'so', 'will'] od. ['Wh', 't will h', 've so will'] Your answer is correct. The correct answer is: Wh t will h ve so will Question **6** Correct Mark 1.00 out of 1.00 Which of the following will give "Vijay" as output? str1="John,Vijay,Aryan" a. print(str1[-11:-7]) b. print(str1[-7:-12]) o c. print(str1[-11:-6]) ✓ Slicing takes place at one index position less than the given second index position of the string. So, second index position will be -7+1=-6. d. print(str1[-7:-11])

Your answer is correct.

The correct answer is: print(str1[-11:-6])

Question <b>7</b>
Correct
Mark 1.00 out of 1.00
What will be the output of below Python code?
str1="poWer"
<pre>str1.upper() print(str1)</pre>
Answer: poWer
Allswei. power
str1.upper() returns the uppercase of whole string str1. However, it doesnot change the string str1. So, output will be the original str1.
The correct answer is: poWer
Question 8
Correct
Mark 1.00 out of 1.00
What is the output of the following Code?
str1="123456789"
print(str1[2:6:2])
Annual 25
Answer: 35
The correct answer is: 35
Question <b>9</b>
Correct
Mark 1.00 out of 1.00
What is the output of the following code?
my_string = 'arvijayakumar'
<pre>for i in range(my_string):     print(i)</pre>
O a. 012312
1.
○ b. None
© c. Error ✓ range(str) is not allowed.
○ d. arvjayakumar
Your answer is correct.
The correct answer is:
Error

06/2024, 16:46	Week5_MCQ: Attempt review   REC-PS		
Question 10			
Correct			
Mark 1.00 out of 1.00			
What is the output of the following Code?			
print(ord('C'))			
Answer: 67			
The correct answer is: 67			
Question 11			
Correct			
Mark 1.00 out of 1.00			
What is the output of the following code?			
str1="vijay"			
for i in str1:			
print(i, end="")			
○ a. 01234			
○ b. No output			
Od. None of the above			
Your answer is correct.			
The correct answer is:			
vijay			

0/2024, 10.40	Week3_WOQ. Attempt review   NEC-F3
Question 12	
Correct	
Mark 1.00 out of 1.00	
What is the output of the following code ?	
<pre>str = "Welcome" str[2] = 'a'</pre>	
print(str)	
O a Walaawaa	
a. Welcomea	
o. Weacome	
○ d. aWelcome	
Your answer is correct.	
The correct answer is: Error	
Question <b>13</b> Correct	
Mark 1.00 out of 1.00	
What is the putput of the following so do?	
What is the output of the following code? str1="vijay"	
for i in range(len(str1)):	
print(i, end="")	
print(i, chd= )	
a. None of the above	
b. 01234   ✓	
○ c. vijay	
○ d. No output	
Your answer is correct.	
The correct answer is:	
01234	

www.rajalakshmicolleges.org/moodle/mod/quiz/review.php? attempt = 11070&cmid = 99

Which of the following are valid string manipulation functions in Python?  a. upper() b. count() c. All of the mentioned ✓ All of the above are valid string manipulation functions in Python. d. strip()  Your answer is correct. The correct answer is: All of the mentioned  Queston 15 Carreet  What 100 out of 1.00  What is the output of the following code?  example = "snow world" example(3) = "s" print example  a. Error ✓ Strings cannot be modified b. snow c. snos world d. snow world  Your answer is correct. The correct answer is: Error  Strings  Jump to	Question 14 Correct Mark 1.00 out of 1.00
b. count() c. All of the mentioned ✓ All of the above are valid string manipulation functions in Python. d. strip()  Your answer is correct.  The correct answer is: All of the mentioned  Overstor 15  Correct  Mark 1.00 out of 1.00  What is the output of the following code?  example = "snow world" example(3) = 's' print example  a. Error ✓ Strings cannot be modified b. snow c. snos world d. snow world  Your answer is correct.  The correct answer is: Error	Which of the following are valid string manipulation <u>functions</u> in Python?
c. All of the mentioned ✓ All of the above are valid string manipulation functions in Python. d. strip()  Your answer is correct.  The correct answer is: All of the mentioned  Question 15  Correct  Mark 1.00 out of 1.00  What is the output of the following code?  example = "snow world"  example(3) = s' print example  a. Error ✓ Strings cannot be modified b. snow c. snos world d. snow world  Your answer is correct.  The correct answer is: Error	o a. upper()
Outsion 15 Correct answer is: All of the mentioned  What is the output of the following code?  example = "snow world" example(3) = 's' print example  a. Error ✓ Strings cannot be modified b. snow c. snos world d. snow world  Your answer is correct. The correct answer is: Error	O b. count()
Your answer is correct.  The correct answer is: All of the mentioned  Ouestion 15  Correct  Mark 1:00 out of 1:00  What is the output of the following code?  example = "snow world" example[3] = 's' print example  ■ a. Error ✓ Strings cannot be modified  ■ b. snow  ■ c. snos world  ■ d. snow world  Your answer is correct.  The correct answer is: Error	
Cuestion 15 Correct Mark 1.00 out of 1.00  What is the output of the following code?  example = "snow world" example[3] = 's' print example  a. Error ✓ Strings cannot be modified  b. snow  c. snos world  d. snow world  Your answer is correct. The correct answer is: Error	Od. strip()
Question 15 Correct Mark 1.00 out of 1.00  What is the output of the following code?  example = "snow world" example[3] = 's' print example  a. Error ✓ Strings cannot be modified  b. snow c. snos world  d. snow world  Your answer is correct. The correct answer is: Error	Your answer is correct.
Correct Mark 1.00 out of 1.00  What is the output of the following code?  example = "snow world" example[3] = 's' print example  ■ a. Error ✓ Strings cannot be modified  □ b. snow  □ c. snos world  □ d. snow world  Your answer is correct. The correct answer is: Error	
What is the output of the following code?  example = "snow world" example[3] = 's' print example  ■ a. Error ✓ Strings cannot be modified  □ b. snow  □ c. snos world  □ d. snow world  Your answer is correct. The correct answer is: Error	Question 15
What is the output of the following code ?  example = "snow world" example[3] = 's' print example  a. Error ✓ Strings cannot be modified  b. snow  c. snos world  d. snow world  Your answer is correct. The correct answer is: Error	
example = "snow world" example[3] = 's' print example  a. Error ✓ Strings cannot be modified b. snow c. snos world d. snow world  Your answer is correct. The correct answer is: Error	
example[3] = 's' print example  a. Error ✓ Strings cannot be modified  b. snow  c. snos world  d. snow world  Your answer is correct.  The correct answer is:  Error  Strings	What is the output of the following code ?
<ul> <li>b. snow</li> <li>c. snos world</li> <li>d. snow world</li> </ul> Your answer is correct. The correct answer is: Error  Strings	example[3] = 's'
<ul> <li>c. snos world</li> <li>d. snow world</li> </ul> Your answer is correct. The correct answer is: Error ✓ Strings	<ul> <li>         a. Error ✓ <u>Strings</u> cannot be modified     </li> </ul>
<ul> <li>✓ d. snow world</li> <li>Your answer is correct.</li> <li>The correct answer is:</li> <li>Error</li> </ul> Strings	O b. snow
Your answer is correct. The correct answer is: Error  Strings	○ c. snos world
The correct answer is: Error  ✓ Strings	O d. snow world
Error  Strings	Your answer is correct.
Jump to	✓ Strings
	Jump to

Week5\_Coding ►

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

Started on	Tuesday, 14 May 2024, 7:22 PM
State	Finished
Completed on	Tuesday, 14 May 2024, 7:43 PM
Time taken	21 mins 28 secs
Grade	<b>13.00</b> out of 15.00 ( <b>86.67</b> %)

Correct
Mark 1.00 out of 1.00

```
L=["Amit","Sumit","Naina"]
L1=["Sunil"]
print(L + L1)

a. ['Amit', 'Sumit', 'Naina', ['Sunil']]

b. ['Amit', 'Sumit', 'Naina', 'Sunil'] 

c. List can not concatenate
```

Your answer is correct.

The correct answer is: ['Amit', 'Sumit', 'Naina', 'Sumil']

Question <b>2</b>
Correct
Mark 1.00 out of 1.00

Find the output?

list3=[]

list1 ='REC\_CSE\_ECE'

list2= list1.split('\_')

for i in list2:

list3.extend(i)

print(len(list3))

- a. 3
- O b. 12
- c. 9 
  ✓
- Od. 11

Your answer is correct.

The correct answer is:

9

Question  ${\bf 3}$ 

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

Your answer is correct.

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

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

What is the output of the following code?

```
list1 = ["hi", "we", "are", "the", "elements", "in", "a", "List"]
for i in range(4):
    print(list1[i])
```

- a. hi we are the 
  ✓
- O b. hi we are the elements in a <u>list</u>
- oc. hi we are
- Od. hi we are the elements

Your answer is correct.

The correct answer is:

hi we are the

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

Find the output?

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

list1.reverse()

print(list1)

- a. [1, 1, 2, 2, 3, 3, 4]
- o. [4, 3, 3, 2, 2, 1, 1]
- od. [1, 2, 3, 4, 1, 2, 3]

Your answer is correct.

The correct answer is:

[3, 2, 1, 4, 3, 2, 1]

Question <b>6</b>	
Correct	
Mark 1.00 out of 1.00	

What will be the output after the following statements? m = [25, 34, 70, 63] n = m[2] - m[0] print

- a. 45 
  ✓
- o b. 70
- oc. 25
- Od. 34

Your answer is correct.

The correct answer is: 45

Question 7

Correct

Mark 1.00 out of 1.00

What will be the output after the following statements?

m = [50, 25, 65, 0, 99]

n = max(m)

print?

- o a. 0
- b. 99 

  ✓
- o. (50, 25, 65, 0, 99)
- Od. 25

Your answer is correct.

The correct answer is: 99

06/2024, 16:47	Week6_MCQ: Attempt review   REC-PS
Question <b>8</b>	
Correct	
Mark 1.00 out of 1.00	
Suppose listExample is ['h','e','l','l','o'], what is len(listExample)?	?
○ a. 4	
O b. Error	
⊚ c. 5 ✓	
Your answer is correct.	
The correct answer is:	
5	
Question <b>9</b>	
Correct	
Mark 1.00 out of 1.00	
Choose a correct representation of list	
a. 10,20,30,REC	
o. (10,20,30,'REC')	
O d. (10,20,30,'REC')	
Your answer is correct.	
TOUT ATISWEL IS COLLECT.	

The correct answer is: [10,20,30,'REC']

Question 10
Incorrect

Mark 0.00 out of 1.00

In the given program if extend() is used instead of append() than what will be the output?

list1 = [1, 2, 3, 4]
list1.append([5,6,7,8])
print(list1)

- a. [1,2,3,4]
- b. [1,2,3,4][5,6,7,8]
- c. [1,2,3,4,5,6,7,8]
- d. [1,2,3,4,[5,6,7,8]] ×

Your answer is incorrect.

The correct answer is: [1,2,3,4,5,6,7,8]

Question 11

Correct

Mark 1.00 out of 1.00

What is the output when we execute <a href="list">list</a>("welcome")

- a. c)['emoclew']
- b. a) ['w', 'e', 'l', 'c', 'o', 'm', 'e']
- c. b) ['welcome']

Your answer is correct.

The correct answer is:

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

```
Question 12
Correct
Mark 1.00 out of 1.00
  Find the output?
  list1 = \underline{list}('REC\_CSE\_ECE')
  print(list1.count('_'))
   a. 3
   ○ b. -4
   c. Error

    d. 2 

✓

  Your answer is correct.
  The correct answer is:
  2
Question 13
Correct
Mark 1.00 out of 1.00
  Find the output?
  list3=[]
  list1 ='REC_CSE_ECE'
  list2= list1.split('_')
  for i in list2:
    list3.extend(i)
  print(list3)
   a. ['REC', 'CSE', 'ECE']
   b. Error
   © c. ['R', 'E', 'C', 'C', 'S', 'E', 'E', 'C', 'E'] ✓
   d. ['REC_CSE_ECE']
  Your answer is correct.
  The correct answer is:
  ['R', 'E', 'C', 'C', 'S', 'E', 'E', 'C', 'E']
```

	<u> </u>
Question 14	
Incorrect	
Mark 0.00 out of 1.00	
West of the City o	
Write the output of the following:	
D = [1,2,3] D1 = D	
D.append(4)	
print(D1)	
Answer: [1,2,3,4]	×
Allswei. [1,2,3,4]	^
The correct answer is: [1, 2, 3, 4]	
Question 15	
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	
•	
o a. December	
c. ['July', 'September', 'December']	
O d. July	
Your answer is correct.	
The correct answer is:	
September	
■ List	
Jump to	
samp com	

Week6\_Coding ►

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

Started on	Monday, 27 May 2024, 2:35 PM
State	Finished
Completed on	Monday, 27 May 2024, 2:46 PM
Time taken	11 mins
Grade	<b>15.00</b> out of 15.00 ( <b>100</b> %)
Question 1	
Correct	
Mark 1 00 out of 1 00	

### What is the output of the following

```
set1 = {1, 2, 3, 4, 5}
set2 = {6, 7, 1, 3, 4, 8, 2, 5}

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

oa. False

False

O b. False

True

O c. True

False

o
 d. True

✓

True

Your answer is correct.

The correct answer is:

True

True



Correct

Mark 1.00 out of 1.00

What is printed when the following code is run?

```
tup = ('30', '3', '2', '8')
print(sorted(tup,reverse = True))
```

- a. ['2', '3', '30', '8']
- ob. ['30', '8', '3', '2']
- o. ['2', '3', '8', '30']

Your answer is correct.

The correct answer is:

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

Question 3

Correct

Mark 1.00 out of 1.00

What will set1|set2 do?

If set1={"a","b",3}
set2={3,7}

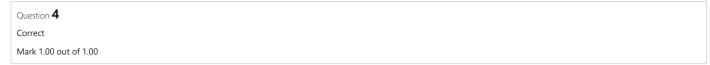
- a. Elements of set2 will get appended to set1
- b. A new <u>set</u> will be created with the elements of both set1 and set2 

  ✓
- oc. A new <u>set</u> will be created with the unique elements of set1 and set2.
- od. Elements of set1 will get appended to set2

Your answer is correct.

The correct answer is:

A new  $\underline{\text{set}}$  will be created with the elements of both set1 and set2



What is the output of the given below program?

my\_t1 = (1, 2, 3, 4) my\_t1.append( (5, 6, 7) ) print(len(my\_t1))

- a. 5
- O b. 1
- ◎ c. Error ✓
- Od. 2

Your answer is correct.

The correct answer is:

Error

Question **5** 

Correct

Mark 1.00 out of 1.00

Find the output of the given Python program?

t1 = (55, 44, 33, 22, 11) x = [t1[i] for i in range(0, len(t1), 2)]print(x)

- a. ([55,33,11])
- b. [55, 33, 11] 

  ✓
- c. (55,33,11)
- od. [(55,33,11)]

Your answer is correct.

The correct answer is:

[55, 33, 11]

Correct Mark 1.00 out of 1.00	Question <b>6</b>	
Mark 1.00 out of 1.00	Correct	
	Mark 1.00 out of 1.00	

What is the output of the given below program?

```
t1 = (1,2,3)
t2 = (4,5,6)
x = t1+t2
print(x)
```

- a. (1,2,3)(4,5,6)
- b. (1,2,3,3,2,1)
- © c. (1,2,3,4,5,6) ✓
- d. Error

Your answer is correct.

The correct answer is: (1,2,3,4,5,6)

Question 7

Correct

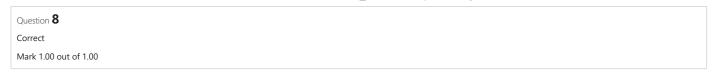
Mark 1.00 out of 1.00

Which of the following is a Python tuple?

- a. [1,2,3,4]
- b. {1,3,8,9,41}
- © c. (1,4,5,6,7) ✓
- d. ("Wonder")

Your answer is correct.

The correct answer is: (1,4,5,6,7)



What is the output of the following code

```
aSet = {1, 'rec', ('cse', 'ece'), True}
print(aSet)
```

- a. Error
- O b.

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

- c. {'rec', 1, ('cse', 'ece'),True}
- d. {'rec', 1, ('cse', 'ece')}

Your answer is correct.

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

Question **9** 

Correct

Mark 1.00 out of 1.00

What will be the output of following Python code?

```
list1=[1,3,4,2]
x=list1.pop(2)
print(set([x]))
```

- a. {1,3,2}
- b. {1,3,4}
- oc. {2}

Your answer is correct.

The correct answer is:

{4}

6/2024, 16:48	Week7_MCQ: Attempt review   REC-PS
Question 10	
Correct	
Mark 1.00 out of 1.00	
What will be printed when the following code executes?	
a = ("Python Programming")	
print type(a)	
a. <class 'tuple'=""></class>	
○ b. str	
O c. <class 'int'=""></class>	
Your answer is correct.	
The correct answer is:	
<class 'str'=""></class>	
Question 11	
Correct	
Mark 1.00 out of 1.00	
Write the Output of the following Code?	
t = (15,83,83,52,60,45,52,85,100)	
print(min(t)+max(t)+t.count(52))	
b. 100	
O c. 2	
Od. Error	

Your answer is correct.

The correct answer is: 117

Question 12
Correct
Mark 1.00 out of 1.00

Select all the correct options to remove "ECE" from the set.

sampleSet = {"ECE", "R&A", "MCT"}

- a. remove.sampleSet("ECE")
- b. sampleSet.discard("ECE")
- c. del.sampleSet("ECE")
- d. sampleSet.delete("ECE")

Your answer is correct.

The correct answer is: sampleSet.discard("ECE")

```
Question 13
Correct
Mark 1.00 out of 1.00
```

What will the below Python code do?

```
set1={2,3}
set2={3,2}
set3={2,1}
if(set1==set2):
    print("yes")
else:
    print("no")
if(set1==set3):
    print("yes")
else:
    print("yes")
```

- a. "==" is not supported for <u>set</u> in Python
- b. No, No
- c. Yes, Yes

Your answer is correct.

The correct answer is:

Yes, No

Question 14 Correct	
Mark 1.00 out of 1.00	
What will be the output of the below Python code?	
t1=(55,12,78,64,25)	
t1.pop(12)	
print(tuple1)	
O a. 12	
o b. (55,78,64,25)	
© c. Error  ✓	
O d. (12)	
Your answer is correct.	
The correct answer is:	
Error	
Question 15 Correct	
Mark 1.00 out of 1.00	
What will be the output of following Python code?	
set1={2,5,3}	
set2={3,1}	
set3={}	
set3=set1&set2	
print(set3)	
p. 1.10(3003)	
○ a. {2,5,1}	
○ c. {2,5,3,1}	
○ d. {}	
Your answer is correct.	
The correct answer is:	
{3}	
→ Set	
Jump to	
	Week7 Coding

Week7\_Coding ►

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

	Tuesday, 28 May 2024, 6:49 PM
	Finished
	Tuesday, 28 May 2024, 7:18 PM
	29 mins 11 secs
Grade	<b>14.00</b> out of 15.00 ( <b>93.33</b> %)
Question <b>1</b>	
Correct	
Mark 1.00 out of 1.00	
1,2,3 are the in	n the following <u>dictionary</u> . D = {1 : "One", 2 : "Two", 3 : "Three"}
a. Values	
b. Keys  ✓	
c. Items	
od. None of th	e mentioned
The correct answer	is: Keys
Question 2	
Incorrect	
Mark 0.00 out of 1.00	
Callauring statemen	t vature values in the form of D1 keys \ # D1 is a distinguity
Following Statemen	treturn values in the form of: D1.keys() # D1 is a <u>dictionary</u>
a. <u>dictionary</u>	×
O b. tuple	
O c. <u>list</u>	
Od. string	
The correct answer	is: <u>list</u>
Question <b>3</b>	
Correct	
Mark 1.00 out of 1.00	
Which function/sta	tement delete all the items of the <u>dictionary</u> ?
○ a. pop <b></b>	
b. delete	
c. del	
d. clear	

The correct answer is: clear

Question <b>4</b>
Correct
Mark 1.00 out of 1.00

What will be the Output of the following code? dl={1:10, 2:20, 3:30, 4:40} d2={5:50, 6:60, 7:70} dl.update (d2) print (dl)

- a. {1:10, 2: 20, 4: 40, 5: 50, 6: 60, 7: 70}
- b. {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60, 7: 70}

  ✓
- o. [(1, 10), (2, 20), (3, 30), (4, 40), (5, 50)]
- od. [1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60, 7: 70]

Your answer is correct.

The correct answer is:

{1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60, 7: 70}

Question **5** 

Correct

Mark 1.00 out of 1.00

Suppose d = {"john":40, "peter":45}, to delete the entry for "john" what command do we use?

- a. del d["john"] 

  ✓
- b. del d("john":40)
- c. d.delete("john":40)
- d. d.delete("john")

Your answer is correct.

The correct answer is: del d["john"]

Question <b>6</b>
Correct
Mark 1.00 out of 1.00
Dictionaries in python are
<ul><li>a. Mapping data type</li><li>b. Mutable data type</li></ul>
<ul><li>○ b. Mutable data type</li><li>○ c. Both Non-Mutable data type and Mapping data type ✓</li></ul>
○ d. Non-Mutable data type
The correct answer is: Both Non-Mutable data type and Mapping data type
Question <b>7</b>
Correct
Mark 1.00 out of 1.00
Which one of the following is correct?
a. A <u>dictionary</u> can have two same keys with different values.
b. A python, a <u>dictionary</u> can neither have two same keys nor two same values.
<ul> <li>c. A <u>dictionary</u> can have two same values with different keys. ✓</li> </ul>
d. A <u>dictionary</u> can have two same keys or same values but cannot have two same key-value pair
Your answer is correct.
The correct answer is:
A <u>dictionary</u> can have two same values with different keys.
Question <b>8</b>
Correct
Mark 1.00 out of 1.00
datatype fall under mapping.
Dictionary M
<ul><li>a. <u>Dictionary</u></li><li>b. <u>List</u></li></ul>
c. String
o d. Tuple
The correct answer is: <u>Dictionary</u>

6/2024, 16:49 Week8_MCQ: Attempt review   REC-PS  Question 9  Correct  Mark 1.00 out of 1.00	
Correct	
Mark 1.00 out of 1.00	
Walk 1.00 Out of 1.00	
Write a statement to retrieve the value corresponding to the key 7 in <u>dictionary</u> 'D1'.	
○ a. D1.disp(7)	
<ul><li>b. D1.get(7) ✓</li></ul>	
c. D1.values(7)	
○ d. D1.pop(7)	
The correct answer is: D1.get(7)	
Question 10	
Correct	
Mark 1.00 out of 1.00	
Which of the following are immutable data type? A. String B. Tuple C. <u>List</u> D. <u>Dictionary</u> a. a and c	

- b. a and b 
  ✓
- oc. b and d
- Od. c and d

The correct answer is: a and b

06/2024, 16:49	Week8_MCQ: Attempt review   REC-PS
Question 11	
Correct	
Mark 1.00 out of 1.00	
Which of the following are true of Python dictionaries:	
a) All the keys in a <u>dictionary</u> must be of the same type.	
b) Items are accessed by their position in a <u>dictionary</u> .	
c) A dictionary can contain any object type except another	dictionary.
d) Dictionaries can be nested to any depth.	
e) Dictionaries are mutable.	
f) Dictionaries are accessed by key.	
a. c,d,e	
b. d,e,f  ✓	
○ c. a,b	
○ d. b,c	
Your answer is correct.	
The correct answer is:	
d,e,f	
Question 12	
Correct	
Mark 1.00 out of 1.00	
In <u>dictionary</u> Keys and values are separated by	
<ul><li>a. dot(.)</li></ul>	
b. Comma( ,)	
od. Semicolon(;)	

The correct answer is: Colon ( ••

Question 13 Correct Mark 1.00 out of 1.00	
Which function helps to merge dictionary 'D1' and 'D2'?  a. append  b. update  c. merge  d. get	
The correct answer is: update  Question 14  Correct	
Mark 1.00 out of 1.00	
<ul> <li>Which one of the following is correct?</li> <li>a. A <u>dictionary</u> can have two same keys with different values.</li> <li>b. A python, a <u>dictionary</u> can neither have two same keys nor two same values.</li> <li>c. A <u>dictionary</u> can have two same values with different keys. ✓</li> <li>d. A <u>dictionary</u> can have two same keys or same values but cannot have two same key-value pair</li> </ul>	
Your answer is correct. The correct answer is: A <u>dictionary</u> can have two same values with different keys.	
Question 15 Correct Mark 1.00 out of 1.00	
Key – value concept is in  a. Tuple  b. Dictionary. ✓  c. List  d. String	
The correct answer is: <u>Dictionary</u>	
→ Dictionary	
Jump to	
	Week8 Coding ►

Started on	Monday, 27 May 2024, 5:44 PM
State	Finished
Completed on	Monday, 27 May 2024, 5:51 PM
Time taken	6 mins 7 secs
Grade	<b>15.00</b> out of 15.00 ( <b>100</b> %)
uestion <b>1</b>	
orrect	
lark 1.00 out of 1.00	
The return stateme	nt in function is used to
a. Both retur	n value and returns the control to the calling function 🗸
ob. return valu	ie e
c. None of the	ne mentioned
	e control to the calling function
od. returns the	
od. returns the	e control to the calling function
d. returns the	e control to the calling function
d. returns the The correct answer  Tuestion 2  Tuestion 3  Tuestion 4  Tuestion 4  Tuestion 4  Tuestion 5  Tuestion 6  Tuestion 6  Tuestion 7  Tuestio	e control to the calling function  is: Both return value and returns the control to the calling function  t of the add() function call?
d. returns the The correct answer  Tuestion 2  Tuestion 3  Tuestion 4  Tuestion 4  Tuestion 4  Tuestion 5  Tuestion 6  Tuestion 6  Tuestion 7  Tuestio	e control to the calling function  is: Both return value and returns the control to the calling function  t of the add() function call?
d. returns the The correct answer  uestion 2  orrect lark 1.00 out of 1.00  What is the output  def add(a, b):     return a+5, b+  result = add(3, 2)  print(result)	e control to the calling function  is: Both return value and returns the control to the calling function  t of the add() function call?
d. returns the The correct answer  Tuestion 2  Tuestion 2  The correct answer  Tuestion 2  Tuestion 3  Tuestion 4	e control to the calling function  is: Both return value and returns the control to the calling function  t of the add() function call?

Your answer is correct.

The correct answer is:

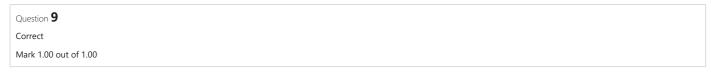
(8,7)

00/2021, 1	
Question <b>3</b>	
Correct	
Mark 1.00 c	out of 1.00
The	_ statement returns the values from the function to the calling function.
○ a.	
O b.	
	return ✓
O d.	give
The cor	rect answer is: return
THE COL	rect answer is. Teturn
Question <b>4</b>	
Correct	
Mark 1.00 d	out of 1.00
def cal(	n1): What is n1?
a.	Parameter ✓
O b.	Argument
○ c.	Keyword
○ d.	None of the mentioned
The cor	rect answer is: Parameter
_	
Question <b>5</b>	
Correct	
Mark 1.00 c	out of 1.00
Choose	the correct statement
CHOOSE	and correct statement
○ a.	We can create function with argument(s) and no return value.
	We can create function with no argument and no return value.
	We can create function with no argument and with return value(s)
	All of the mentioned ✓
· u.	All of the mentioned •

The correct answer is: All of the mentioned

6/2024, 16	Week9_MCQ: Attempt review   REC-PS
Question <b>6</b>	
Correct	
Mark 1.00 o	ut of 1.00
Which o	of the following statement is a function call?
○ a.	def sum
<ul><li>b.</li></ul>	sum@
○ c.	call sum
O d.	function sum
The cor	rect answer is: sum
Question <b>7</b>	
Correct	. 4400
Mark 1.00 o	ut of 1.00
Which o	of the following statement is not true regarding <u>functions</u> ?
○ a.	A function may or may not have parameters.
O b.	Function header always ends with a colon ( ) .
c.	A function definition begins with "define" ✓
O d.	A function may or may not return value.
The cor	rect answer is: A function definition begins with "define"
Question <b>8</b>	
Correct	
Mark 1.00 o	ut of 1 00
Which o	of the following function definition header is wrong?
<ul><li>a.</li></ul>	def scan(p1, p2 = 4, p3 = 5):
	def div(p1=4, p2, p3): ✓
О с.	def mul(p1, n1, m1):
O d.	def sum(n1, n2, n = 3):

The correct answer is: def div(p1=4, p2, p3):



### What is the output of the following function call?

```
def outer_fun(a, b):
    def inner_fun(c, d):
        return c + d
        return inner_fun(a, b)
    return a
result = outer_fun(5, 10)
print(result)
```

- a. 5 
  ✓
- O b. 15
- c. (15,5)
- d. Syntax Error

Your answer is correct.

The correct answer is:

5

# Question 10

Correct

Mark 1.00 out of 1.00

What is the output of the following function call?

```
def fun1(name, age=20):
    print(name, age)
fun1('Emma', 25)
```

- a. age
- b. Emma 25
- oc. Emma 20
- d. name

Your answer is correct.

The correct answer is: Emma 25

Question 11
Correct
Mark 1.00 out of 1.00

What will be the output of the following Python code?

```
def printMax(a, b):
    if a > b:
        print(a, 'is maximum')
    elif a == b:
        print(a, 'is equal to', b)
    else:
        print(b, 'is maximum')
printMax(3, 4)
```

- a. 3
- O b. 4
- Od. None of the mentioned

Your answer is correct.

The correct answer is:

4 is maximum

Question 12

Correct

Mark 1.00 out of 1.00

In a program, a function can be called \_\_\_\_ times.

- a. 3
- O b. 5
- O c. 2
- d. Multiple times ✓

The correct answer is: Multiple times

```
Question 13
Correct
Mark 1.00 out of 1.00
```

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

```
def factorial  :
    if (n==1 or n==0):
        return 1
    else:
        return ——
num = 5;
print("number:",num)
print("Factorial: ",factorial(num))

        a. (n-1)*(n-2)
        b. fact  * *fact(n-1)
        c. n*(n-1)
        d. (n * factorial(n - 1)) ✓

Your answer is correct.
```

The correct answer is: (n \* factorial(n - 1))

Question **14**Correct
Mark 1.00 out of 1.00

Write the output of : print(abs(-45))

- a. 45.0
- b. 45 

  ✓
- oc. None of the mentioned
- d. -45

The correct answer is: 45

Jump to...

10/2024, 10:00	Weeks_Med. Allempt review   NEO-1 0
Question 15	
Correct	
Mark 1.00 out of 1.00	
6. Which of the following is not the built-in function?	
○ a. input⊜	
b. <u>dictionary</u> ✓	
○ c. tuple	
○ d. print	
The correct answer is: dictionary	
The correct answer is. <u>dictionally</u>	
▼ Functions	
Turicuona	

Week9\_Coding ►

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

	Monday, 27 May 2024, 2:17 PM
State	Finished
	Monday, 27 May 2024, 2:28 PM
	11 mins 20 secs
Grade	<b>15.00</b> out of 15.00 ( <b>100</b> %)
Question <b>1</b>	
Correct	
Mark 1.00 out of 1.00	
Which of the follow	ing is not the required condition for a binary search algorithm?
a. There shou	ld be direct access to the middle element in any sublist
O b. The <u>list</u> mu	st be sorted
c. There must	be a mechanism to delete and/or insert elements in the $\varliminf$
od. Number va	lues should only be present
Number va	lues should only be present
Your answer is correct The correct answer There must be a me	
Question <b>2</b>	
Correct	
Mark 1.00 out of 1.00	
search tal	xes a sorted/ordered <u>list</u> and divides it in the middle.
a. Binary	
O b. Linear	
c. Both (1) &	(3)
d. Hash	
Your answer is corre	ect.
The correct answer Binary	

Question 3
Correct
Mark 1.00 out of 1.00
is putting an element in the appropriate place in a sorted <u>list</u> yields a larger sorted order <u>list</u> .
<ul><li>a. Distribution</li></ul>
○ c. Selection
O d. Extraction
Your answer is correct.
The correct answer is:
Insertion
Question 4
Correct
Mark 1.00 out of 1.00
Algorithm design technique used in merge sort algorithm is <ul> <li>■ a. Divide and conquer ✓</li> </ul>
<ul><li>b. Backtracking</li></ul>
C. Greedy method
d. Dynamic programming
Your answer is correct.
The correct answer is:
Divide and conquer
Question <b>5</b>
Correct
Mark 1.00 out of 1.00
The process of placing or rearranging a collection of elements into a particular order is known as
○ a. Merging
b. <u>Searching</u>

C. Rearranging

■ d. <u>Sorting</u> ✓

Your answer is correct.

The correct answer is: **Sorting** 

Question <b>6</b>
Correct Mark 1.00 out of 1.00
In checks the elements of a <u>list</u> , one at a time, without skipping any element.
<ul><li>a. Both (1) &amp; (3)</li></ul>
○ b. Hash search
○ c. Binary search
<ul><li></li></ul>
Your answer is correct.
The correct answer is:
Linear search
Question <b>7</b>
Correct
Mark 1.00 out of 1.00
What is mean by stable sorting algorithm?
<ul> <li>a. A <u>sorting</u> algorithm is stable if it preserves the order of duplicate keys</li> </ul>
<ul> <li>b. A <u>sorting</u> algorithm is stable if it preserves the order of all keys</li> </ul>
oc. A <u>sorting</u> algorithm is stable if it preserves the order of non-duplicate keys
d. A <u>sorting</u> algorithm is stable if it doesn't preserver the order of duplicate keys
Your answer is correct.
The correct answer is:
A <u>sorting</u> algorithm is stable if it preserves the order of duplicate keys
Question <b>8</b>
Correct Mark 1.00 out of 1.00
Which of the following is not a limitation of binary search algorithm?
a. Must use a sorted array
b. Requirement of sorted array is expensive when a lot of insertion and deletions are needed
$\odot$ c. Binary search algorithm is not efficient when the data elements more than 1500 $\checkmark$
d. There must be a mechanism to access middle element directly
Your answer is correct
Your answer is correct.

The correct answer is:

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

Question <b>9</b> Correct	
Mark 1.00 out of 1.00	
Which of the following is not an in-place sorting algorithm?	
○ a. Quick sort	
○ b. Selection sort	
○ c. Merge sort ✓	
○ d. Heap sort	
Your answer is correct.	
The correct answer is:	
Merge sort	
Question 10	
Correct	
Mark 1.00 out of 1.00	
explain how an algorithm will perform when the input grows larger.	
a. <u>Sorting</u>	
○ b. Merging	
○ c. <u>Searching</u>	
Your answer is correct.	
The correct answer is:	
Complexity	
Question 11	
Correct	
Mark 1.00 out of 1.00	
Finding the location of a given item in a collection of items is called	
O a. Mining	
○ c. Finding	
○ d. Discovering	
Vous anguer is correct	
Your answer is correct.	
The correct answer is:  Searching	

06/2024, 16:51	Week10_MCQ: Attempt review   REC-PS
Question 12	
Correct	
Mark 1.00 out of 1.00	
Given an array arr = {45,77,89,90,94,99,100} and key = 1 and second iterations?	00; What are the mid values(corresponding array elements) generated in the first
<ul><li>■ a. 90 and 99 ✓</li></ul>	
o b. 89 and 94	
oc. 94 and 99	
Od. 90 and 100	
Your answer is correct.	
The correct answer is:	
90 and 99	
Question 13 Correct	
Mark 1.00 out of 1.00	
Two-way merge sort algorithm is used to sort the follow 200,470,150,80,90,40,400,300,120,70	ving elements in ascending order.
What is the order of these elements after second pass o	of the merge sort algorithm?
a. 200,470,80,150,40,90,300,400,70,120	
b. 40,80,90,150,200,300,400,470,70,120	
c. 40,70,80,90,120,150,200,300,400,470	

Your answer is correct.

The correct answer is: 80,150,200,470,40,90,300,400,70,120

Question 14	
Correct	
Mark 1.00 out of 1.00	
sort is the simplest <u>sorting</u> algorithm that works by repeatedly swapping the adjacent elements in ca	se they are unordered
in n-1 passes.	
■ a. Bubble ✓	
b. Insertion	
C. Selection	
○ d. Complexity	
Your answer is correct.	
The correct answer is: Bubble	
Question 15 Correct	
Mark 1.00 out of 1.00	
The average case occurs in the linear search algorithm	
$\odot$ a. When the item is somewhere in the middle of the array $\checkmark$	
<ul> <li>b. Item is the last element in the array or item is not there at all</li> </ul>	
c. When the item is not the array at all	
O d. When the item is the last element in the array	
Your answer is correct.	
The correct answer is:	
When the item is somewhere in the middle of the array	
→ Searching	
Jump to	
	Week10_Coding ►

Week to\_county

# <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, 11:14 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
10	10, <class 'int'=""></class>
10.9	10.9, <class 'float'=""></class>

## **Answer:** (penalty regime: 0 %)

	Input	Expected	Got	
<b>~</b>	10 10.9	10, <class 'int'=""> 10.9,<class 'float'=""></class></class>	10, <class 'int'=""> 10.9,<class 'float'=""></class></class>	~
<b>~</b>	12 12.5	12, <class 'int'=""> 12.5,<class 'float'=""></class></class>	12, <class 'int'=""> 12.5,<class 'float'=""></class></class>	~
<b>~</b>	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 <b>2</b>			
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 %)

```
basic_salary=int(input())
dearness_allowance=(40/100)*(basic_salary)
house_rent=(20/100)*(basic_salary)
gross_salary=int(basic_salary+dearness_allowance+house_rent)
print(gross_salary)
```

	Input	Expected	Got	
~	10000	16000	16000	~
~	20000	32000	32000	~
~	28000	44800	44800	~
~	5000	8000	8000	~

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

	Input	Expected	Got	
~	8.00	2.828	2.828	~
~	14.00	3.742	3.742	<b>~</b>
~	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 percent.
500	
60000	

	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_1=int(input())
greater_1=int(input())
refund=(less_1*0.10)+(greater_1*0.25)
print(f"Your total refund will be ${refund:.2f}.")
```

	Input	Expected	Got		
<b>~</b>	20 20	Your total refund will be \$7.00.	Your total refund will be \$7.00.	~	
<b>✓</b>	11 22	Your total refund will be \$6.60.	Your total refund will be \$6.60.	~	
<b>✓</b>	123 200	Your total refund will be \$62.30.	Your total refund will be \$62.30.	~	
<b>~</b>	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}")
print("weekend",f"{weekend_sal:.2f}")
```

	Input	Expected	Got	
<b>~</b>	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	~

		Input	Expected	Got	
`	<b>/</b>	10000	weekdays 83.08 weekend 73.08	weekdays 83.08 weekend 73.08	<b>~</b>
`	<b>/</b>	6789	weekdays 58.38 weekend 48.38	weekdays 58.38 weekend 48.38	<b>~</b>

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	Monday, 18 March 2024, 1:27 PM
State	Finished
Completed on	Thursday, 21 March 2024, 12:24 PM
Time taken	2 days 22 hours
Overdue	22 hours 57 mins
Marks	19.00/19.00
Grade	<b>100.00</b> out of 100.00

Question **1**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())
2 | ascii_value= 67 + x
3 | print(chr(ascii_value))
```

	Input	Expected	Got	
~	0	С	С	~
<b>~</b>	1	D	D	~

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00.

Question 2
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 %)

```
w=int(input())
g=int(input())
tw=(w*75)+(g*112)
print(f*The total weight of all these widgets and gizmos is {tw} grams.")
```

	Input	Expected	Got	
<b>~</b>	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.	<b>~</b>

Passed all tests! ✓

Correct

Question **3**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  | h=int(input())
2  | does_doll_sing= ((n%2==0) and (n!=0) and (n<=100))
3  | print(does_doll_sing)</pre>
```

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

Passed all tests! ✓

Correct

Question 4
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						

	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	1			

Passed all tests! 🗸

Correct

Question  ${\bf 5}$ 

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 %)

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

	Input	Expected	Got	
~	197	7	7	~
~	-197	7	7	~

Passed all tests! <

Correct

Question **6**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 %)

```
hum=int(input())
count_ones= (num & 1) + ((num>>1 & 1)+ (num>>2 & 1) + (num>>3 & 1))
print(count_ones)
```

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

Passed all tests! ✓

Correct

Question **7**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 %)

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

```
Question 8
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 %)

```
a=float(input())
by1=a*(1+0.04)
by2=by1*(1+0.04)
by3=by2*(1+0.04)
print(f"Balance as of end of Year 1: ${by1:.2f}.")
print(f"Balance as of end of Year 3: ${by2:.2f}.")
print(f"Balance as of end of Year 3: ${by3:.2f}.")

print(f"Balance as of end of Year 3: ${by3:.2f}.")
```

	Input	Expected	Got	
<b>~</b>	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.	<b>~</b>
~	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 9
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	

	Input	Expected	Got	
~	32 43	False	False	<b>~</b>
~	273 7890	True	True	~
~	800 4590	False	False	<b>~</b>

	Input	Expected	Got	
~	6789 32996	True	True	~

Passed all tests! 🗸

Correct

Question 10
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	

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

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	Thursday, 28 March 2024, 7:59 PM
Time taken	8 hours 1 min
Marks	10.00/10.00
Grade	100.00 out of 100.00

```
Question 1
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	yes	yes	~
	4			
~	5 8	no	no	~
	2			

Passed all tests! ✓

Correct

```
Question 2
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	

	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! 🗸

Correct

Marks for this submission: 1.00/1.00.

11

Question  $\bf 3$ 

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 4
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	
<b>~</b>	е	It's a vowel.	It's a vowel.	~
<b>~</b>	r	It's a consonant.	It's a consonant.	~

Passed all tests! <

Correct

```
Question 5
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=="March" or m=="May" or 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 6
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			

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

```
m=int(input())
   p=int(input())
2
3
   c=int(input())
4
   t=m+p+c
5
   if(m>=65 and p>=55 and c>=50) or (t>=180):
6
       print("The candidate is eligible")
   else:
7
8
       print("The candidate is not eligible")
9
```

	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	~
<b>~</b>	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

Marks for this submission: 1.00/1.00.

11

Question <b>7</b>			
Correct			
Mark 1.00 out of 1.0	0		

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	

Answer: (penalty regime: 0 %)

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

s v else:
    print("OUT")
```

The state of the s		
l l		
I I		
-		

	Input	Expected	Got	
~	8	OUT	OUT	~
~	8	IN	IN	~
~	20 9	OUT	OUT	~
~	50 31	IN	IN	<b>~</b>

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

11

```
Question 8
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 %)

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

	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 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

2005 Rooster

2006 Dog

2007 Pig

2008 Rat

2009 Ox

2010 Tiger

2011 Hare

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

Sample Input 1

2010

Sample Output 1

2010 is the year of the Tiger.

Sample Input 2

2020

Sample Output 2

2020 is the year of the Rat.

# **Answer:** (penalty regime: 0 %)

```
y=int(input())
   r=y%12
 3 v if r==0:
        s="Monkey"
 5 v elif r==1:
        s="Rooster"
 6
 7 v elif r==2:
8
        s="Dog"
9 v elif r==3:
        s="Pig"
10
11 v elif r==4:
        s="Rat"
12
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:
        s="Snake"
22
23 v elif r==10:
24
        s="Horse"
25 v else:
        s="Sheep"
26
   print(f"{y} is the year of the {s}.")
```

	Input	Expected	Got	
<b>~</b>	2010	2010 is the year of the Tiger.	2010 is the year of the Tiger.	~
<b>~</b>	2020	2020 is the year of the Rat.	2020 is the year of the Rat.	~

Passed all tests! 🗸

```
Question 10
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

Answer: (penalty regime: 0 %)

```
un=float(input())
 2 v if un<=199:
        bill=un*1.20
4 v elif un<400:
        bill=un*1.50
 6 v elif un<600:
       bill=un*1.80
8 v else:
 9
        bill=un*2.00
10 v if bill>400:
11
        bill+=bill*0.15
12 v if bill<100:
        bill=100
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

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	Wednesday, 3 April 2024, 8:27 PM
State	Finished
Completed on	Tuesday, 9 April 2024, 10:22 AM
Time taken	5 days 13 hours
Overdue	3 days 13 hours
Marks	10.00/10.00
Grade	<b>100.00</b> out of 100.00

Question **1**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
 6 •
        for i in range(2,int(n**0.5)+1):
            if n%i==0:
7 🔻
 8
                p=False
9
                break
10 🔻
        if p:
11
           print("2")
        else:
12 🔻
13
            print("1")
```

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

Passed all tests! ✓

Correct

Question **2**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 %)

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

Passed all tests! <



Marks for this submission: 1.00/1.00.

```
Question 3
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())
   n=N
 2
 3 v if n<10:
         print("Yes")
4
5 v else:
        while n%2==0:
6 ▼
             n//=2
        while n%3==0:
 8 •
9
             n//=3
        while n%5==0:
10 •
11
             n//=<mark>5</mark>
        while n%7==0:
12 🔻
13
             n//=7
         if n==1:
14 ▼
             print("Yes")
15
16 •
         else:
             print("No")
17
18
19
```

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

Passed all tests! <

Correct

```
Question 4
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 v for d in range(10):
 4
         hd=False
 5
         t=n
 6 •
         while t>0:
7 🔻
             if t%10==d:
 8
                  hd=True
9
                  break
10
             t//=10
         if hd:
11 •
12
             ud+=1
   print(ud)
13
```

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

Passed all tests! <

Correct

Question **5**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 %)

```
| h=int(input())
| nps=0
| c=0
| while nps<=n:
| c+=1
| 6 | nps=c*c
| 7 | print(nps)
```

	Input	Expected	Got	
<b>~</b>	10	16	16	<b>~</b>

Passed all tests! <

Correct

```
Question 6
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:
        print(f)
6 v elif n==2:
7
        print(s)
8 v else:
9 ,
        for i in range(3,n+1):
10
            t=f+s
11
            f=s
12
            s=t
        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.

```
Question 7
Correct
Mark 1.00 out of 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 **8**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())
1
2
   n+=1
3
   sr=0
   while sr*sr<n:</pre>
4
5
       sr+=1
6 v if sr*sr==n:
7
       print("Yes")
8
   else:
       print("No")
```

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

Passed all tests! 🗸

Correct

Question **9**Correct
Mark 1.00 out of 1.00

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

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

4! = 4 x 3 x 2 x 1 = 24

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

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

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

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

Assumptions for this program:

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

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

### For example:

Input	Result
5	120
4	24
9	362880

Answer: (penalty regime: 0 %)

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

Passed all tests! <

Correct

```
Question 10
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())
 2
    nr=0
 3
    do=[0]*10
 4
    t=n
 5 ,
    while t>0:
 6
          d=t%10
 7
          do[d]+=1
         t//=<mark>10</mark>
 8
 9
    t=n
10 v while t>0:
11
          d=t%10
          if do[d]==1:
12 •
13
              do[d]=-1
14
              nr+=1
          t//=<mark>10</mark>
15
16
    print(nr)
17
18
19
```

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

Passed all tests! 🗸

Correct

■ Week4\_mcq

Jump to...

Strings -

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

Started on	Wednesday, 1 May 2024, 6:23 PM
State	Finished
Completed on	Saturday, 4 May 2024, 4:45 PM
Time taken	2 days 22 hours
Overdue	22 hours 21 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 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 %)

```
| S=input()
| w=s.split()
| if len(w)<2:
| r="LESS"
| else:
| r=w[1].upper()
| print(r)
```

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

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 %)

	Input	Expected	Got	
~	experience	xpri	xpri	~
	enc			

Passed all tests! <

Correct

```
Question 3
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 %)

```
1
2
3
       while True:
4
            a=input()
5
            if a not in b:
6
                print(a)
7
                b+=a
8
   except:
9
       pass
```

	Input	Expected	Got	
~	first second	first second	first second	~
	first third second	third	third	
~	rec cse it rec cse	rec cse it	rec cse it	<b>&gt;</b>

Passed all tests! <

Correct

Question **4**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()
username, domain_extension=S.split('@')
domain, extension=domain_extension.split('.',1)
print(extension)
print(domain)
print(username)
```

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

Passed all tests! ✓

Correct

Question <b>5</b>	
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:** 

B&A

Explanation: As we ignore '&' and

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

#### For example:

Input	Result
A&x#	x&A#

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

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

	Input	Expected	xpected Got	
<b>~</b>	A&B	B&A	B&A	~

Passed all tests! 🗸

Correct

```
Question 6
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()
 1
    s2=input()
   n=int(input())
3
   un_ch="
4
    foun_ch=""
5
    for char in s1:
6 ,
        if char in s2 and char not in foun_ch:
8
            un_ch+=char
9
            foun ch+=char
10
            if len(un_ch)==n:
11
                break
12
    print(un_ch)
```

	Input	Expected	Got	
~	abcbde cdefghbb 3	bcd	bcd	~

Passed all tests! <

Correct

```
Question 7
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 %)

```
s=input()
sz=input()
is_balanced=True

4    for char in s1:
        if char not in s2:
            is_balanced=False
            break
print("True" if is_balanced else "False")

ssipplication of the print of
```

	Input	Expected	Got	
<b>~</b>	Yn PYnative	True	True	<b>~</b>
<b>✓</b>	Ynf PYnative	False	False	<b>✓</b>

Passed all tests! ✓



```
Question 8
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 %)

```
inp_string=input()
 1
    c_1=0
   c_d=0
3
 4 c_spe=0
5 v for char in inp_string:
6 ▼
        if char.isdigit():
7
            c_d+=1
        elif char.isalpha():
 8 🔻
9
            c_1+=1
10 •
        else:
11
            c_spe+=1
12
   print(c_1)
   print(c_d)
print(c_spe)
13
14
```

	Input	Expected	Got	
~	rec@123	3	3	<b>~</b>
		3	3	
		1	1	
~	P@#yn26at^&i5ve	8	8	~
		3	3	
		4	4	
~	abc@12&	3	3	~
		2	2	
		2	2	

Passed all tests! ✓

Correct

```
Question 9
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_palindromes=[]
for word in words:
    if word!=word[::-1]:
    non_palindromes.append(word)
print(" ".join(non_palindromes))
```

	Input	Expected	Got	
<b>~</b>	Malayalam is my mother tongue	is my mother tongue	is my mother tongue	~

Passed all tests! ✓

Correct

Question 10 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 %)

```
1
   s=input()
   o=''
 2
3
   i=0
4 v while i<len(s):
5
        char=s[i]
        i+=1
 6
 7
        n=0
        while i<len(s) and s[i].isdigit():
8 •
 9
            n=n*10+int(s[i])
10
            i+=1
11
        o+=char*n
12 print(o)
```

	Input	Expected	Got	
<b>~</b>	a2b4c6	aabbbbccccc	aabbbbccccc	~
<b>~</b>	a12b3d4	aaaaaaaaaabbbdddd	aaaaaaaaaabbbdddd	~

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

### ■ Week5\_MCQ

Jump to...

List ►

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

Started on	Tuesday, 14 May 2024, 7:44 PM
State	Finished
Completed on	Wednesday, 15 May 2024, 9:08 PM
Time taken	1 day 1 hour
Marks	10.00/10.00
Grade	<b>100.00</b> out of 100.00

Question 1
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 %)

```
sor_arr=[]
for i in range(10):
    sor_arr.append(int(input()))
    item=int(input())
    print(f'ITEM to be inserted:{item}")
    pos=0

    while pos<len(sor_arr) and sor_arr[pos]<item:
        pos+=1
    sor_arr.insert(pos,item)
    print("After insertion array is:")
    for ele in sor_arr:
        print(ele)</pre>
```

	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

```
Question 2
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	

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

```
A.append(int(input()))
8
        k=int(input())
9
        fo=False
10
        st=0
11
         end=1
12 🔻
        while end<N:</pre>
13 🔻
             if st==end:
14
                 end+=1
15 ▼
             elif A[end] -A[st]==k:
16
                 res.append(1)
17
                 fo=True
18
                 break
             elif A[end]-A[st]<k:</pre>
19 🔻
20
                 end+=1
21 🔻
             else:
22
                 st+=1
23 🔻
         if not fo:
24
             res.append(0)
25 v for resl in res:
26
         print(resl)
27
```

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

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00.

10

Question **3**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

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())
 2
   arr=[]
 3 * for _ in range(n):
       arr.append(int(input()))
5
   tot_sum=sum(arr)
 6
   left_sum=0
   piv_ind=-1
7
 8 v for i in range(n):
        ri_sum=tot_sum-left_sum-arr[i]
9
        if left_sum==ri_sum:
10 •
           piv_ind=i
11
        left_sum+=arr[i]
12
13 print(piv_ind)
```

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

Passed all tests! ✓

Correct

```
Question 4
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())
2
   ele=[]
3 ,
    for i in range(n):
        ele.append(int(input()))
   ser_ele=int(input())
6
    count=0
7
    loc=[]
8 * for index, ele in enumerate(ele):
9 •
        if ele==ser_ele:
10
            loc.append(index+1)
             count<sub>+-1</sub>
```

```
if count>0:
    for locs in loc:
        print(f"{ser_ele} is present at location {locs}.")
    print(f"{ser_ele} is present {count} times in the array.")

16 velse:
    print(f"{ser_ele} is not present in the array.")
```

	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

Marks for this submission: 1.00/1.00.

11

```
Question 5
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 list 2: Two lists
Output
Zipped List: List which combined both list1 and list2
Sample test case
Sample input
2
```

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

```
m=int(input())
   n=int(input())
3 11=[]
 4 v for _ in range(m):
        row=[int(input()) for _ in range(n)]
5
        11.append(row)
   12=[]
7
 8 •
    for _ in range(m):
        row=[int(input()) for _ in range(n)]
10
        12.append(row)
   zip_list=[]
11
12 v for i in range(m):
        comb_row=l1[i]+l2[i]
13
14
        zip_list.append(comb_row)
15 print(zip_list)
```

	Input	Expected	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 6
Correct
Mark 1.00 out of 1.00
```

Output is a merged array without duplicates.

# **Input Format**

N1 - no of elements in array 1

Array elements for array 1

N2 - no of elements in array 2

Array elements for array2

### **Output Format**

Display the merged array

## Sample Input 1

5

1

2

3

6

9

2

4

5

10

# Sample Output 1

1 2 3 4 5 6 9 10

```
n1=int(input())
2
   arr1=[]
3 * for _ in range(n1):
4
        ele=int(input())
5
        arr1.append(ele)
   n2=int(input())
6
7
   arr2=[]
8 * for _ in range(n2):
9
        ele=int(input())
10
        arr2.append(ele)
11
   mer_arr=list(set(arr1+arr2))
   mer_arr.sort()
print(' '.join(map(str,mer_arr)))
12
```

	Input	Expected	Got	
<b>~</b>	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			
<u> </u>	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 7
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			
6	1 2	3	
1			
1			
2			
2			
3			
3			

o   Pr = c (	• Jozni (map ( Jen ) Jon ( Jea ( M. ) _ Jea ( ) // //	

	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			
1			1	

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

11

```
Question 8
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 **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	
<b>~</b>	10	5	5	<b>~</b>
<b>~</b>	10 5	0	0	<b>~</b>
~	1	1	1	~

Passed all tests! 🗸

Correct

```
Question 10
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

Output

True

```
n=int(input())
    11=[]
 2
    for i in range(n):
 3 🔻
        11.append(int(input()))
 5
   la=sorted(l1)
6 | lb=sorted(l1,reverse=True)
7 v if l1==la or l1==lb:
         print(True)
 8
9 v else:
10
         f=0
         for i in range(len(l1)):
11
             b=l1.pop(i)
12
             12a=sorted(11)
13
14
             12b=sorted(11,reverse=True)
             if l1==l2a or l1==l2b:
15
16
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

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, 6:21 PM
State	Finished
Completed on	Sunday, 26 May 2024, 7:12 PM
Time taken	51 mins 14 secs
Marks	5.00/5.00
Grade	<b>100.00</b> out of 100.00

```
Question 1
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

## Answer: (penalty regime: 0 %)

```
t=tuple(map(int,input().split(',')))
k=int(input())
pair_counts={}
for i in range(len(t)):
    for j in range(i+l,len(t)):
        pair_sum=t[i]+t[j]
        if pair_sum==k:
            pair_counts[(min(t[i],t[j],max(t[i],t[j])))]=pair_counts.get
distinct_pairs_counts=len(pair_counts)
print(distinct_pairs_counts)
```

	Input	Expected	Got	
~	5,6,5,7,7,8 13	2	2	<b>~</b>
~	1,2,1,2,5	1	1	<b>~</b>
~	1,2	0	0	<b>~</b>

Passed all tests! <

Correct

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

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

• For example, "ACGAATTCCG" is a **DNA sequence**.

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

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

### Example 1:

```
Input: s = "AAAAACCCCCCAAAAACCCCCCAAAAAGGGTTT"
Output: ["AAAAACCCCCC","CCCCCAAAAA"]
```

### Example 2:

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

### For example:

Input	Result
AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC

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

```
s=input().strip()
seq_len=10
seen_seq=set()
dup_seq=set()
for i in range(len(s)-seq_len+1):
    cur_seq=s[i:i+seq_len]
    if cur_seq in seen_seq:
        dup_seq.add(cur_seq)
    else:
        seen_seq.add(cur_seq)
result=sorted(list(dup_seq))
for seq in result:
    print(seq)
```

	Input	Expected	Got	
~	AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT		AAAAACCCCC CCCCCAAAAA	~
~	ААААААААААА	АААААААА	АААААААА	~

Passed all tests! ✓

Correct

Question 3

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()
uniq_chars=set(input_str)
binary_chars={'0','1'}
if uniq_chars<=binary_chars:
    result="Yes"
else:
    result="No"
print(result)</pre>
```

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

Passed all tests! <

Correct

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

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

Input Format:

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

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

### Sample Input:

5 4

12865

2 6 8 10

## 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			

```
arr1_size,arr2_size=map(int,input().split())
arr1=list(map(int,input().split()))
arr2=list(map(int,input().split()))
set1=set(arr1)
set2=set(arr2)
n_p=set1.symmetric_difference(set2)
for element in n_p:
    print(element,end=" ")
print()
print()
print(len(n_p))
```

	Input	Expected	Got	
~	5 4 1 2 8 6 5		1 5 10 3	<b>~</b>
	2 6 8 10			
~	3 3	11 12	11 12	~
	10 10 10	2	2	
	10 11 12			

Passed all tests! ✓

Correct

```
Question 5
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 %)

```
def find_dup(nums):
    seen=set()
    for num in nums:
        if num in seen:
            return num
        seen.add(num)
    return -1
nums=list(map(int,input().split()))
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

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	Wednesday, 29 May 2024, 7:44 AM
State	Finished
Completed on	Wednesday, 29 May 2024, 9:32 AM
Time taken	1 hour 47 mins
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<sup>™</sup>, 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<sup>M</sup> 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,
         'D': 2, 'G': 2,
'B': 3, 'C': 3, 'M': 3, 'P': 3,
 3
 4
         'F': 4, 'H': 4, 'V': 4, 'W': 4, 'Y': 4,
 5
         'K': 5,
 6
 7
         'J': 8, 'X': 8,
         'Q': 10, 'Z': 10
 8
9
    }
10
    word = input().strip().upper()
11
12
    score = 0
13
14
15 🔻
    for letter in word:
16
         score += scrabble_points.get(letter, 0)
17
18
   print(f"{word} is worth {score} points.")
```

	Input	Expected	Got	
<b>~</b>	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! <

```
Question 2
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	

```
def compute_student_statistics(n, student_data):
 1 •
2
        students = {}
3
4
        for data in student_data:
 5
            parts = data.split()
            name, marks = parts[0], list(map(int, parts[1:]))
 6
 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
13
        for name, marks in students.items():
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:
                 highest_assign, highest_assign_score = [name], marks[1]
22
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]
              elif marks[2] == lowest_lab_score:
28 •
29
                  lowest_lab.append(name)
30
31 ,
             if avg_score < lowest_avg_score:</pre>
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)))
print(' '.join(sorted(lowest_lab)))
36
37
38
         print(' '.join(sorted(lowest_avg)))
39
40
41
    n = int(input().strip())
42
    student_data = [input().strip() for _ in range(n)]
43
    compute student statistics(n, student data)
```

	Input	Expected	Got	
<b>~</b>	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	~
<b>~</b>	3 Raja 95 67 90 Aarav 89 90 90 Shadhana 95 95 91	Shadhana Shadhana Aarav Raja Raja	Shadhana Shadhana Aarav Raja Raja	<b>~</b>

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00.

10

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

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

## **Examples:**

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

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

	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.

11

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

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

**Input**: test\_dict = {'Gfg' : [6, 7, 4], 'best' : [7, 6, 5]}

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

**Explanation**: Sorted by sum, and replaced. **Input**: test\_dict = {'Gfg': [8,8], 'best': [5,5]}

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

**Explanation**: Sorted by sum, and replaced.

Sample Input:

2

Gfg 6 7 4

Best 7 6 5

Sample Output

Gfg 17

Best 18

### For example:

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

```
n = int(input().strip())
 2
 3
    test_cases = {}
 4
 5 v for _ in range(n):
        key, *values = input().strip().split()
 6
 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 v for key, value in sorted_test_cases.items():
15
        print(key, value)
```

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

	Input	Expected	Got	
<b>~</b>	2 Gfg 6 6 Best 5 5	Best 10 Gfg 12	Best 10 Gfg 12	~

Passed all tests! 🗸

Correct

```
Question 5
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()
5
    words2 = s2.split()
6
7
    freq1 = {}
8
    freq2 = \{\}
9
10 v for word in words1:
11 •
        if word in freq1:
            freq1[word] += 1
12
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 v for word in freq1:
24
        if freq1[word] == 1 and word not in freq2:
25
            uncommon_words.append(word)
26
    for word in freq2:
27 ▼
28
        if freq2[word] == 1 and word not in freq1:
29
            uncommon_words.append(word)
30
   print(" ".join(uncommon_words))
```

	Input	Expected	Got	
<b>✓</b>	this apple is sweet this apple is sour	sweet sour	sweet sour	<b>~</b>
~	apple apple banana	banana	banana	<b>~</b>

Passed all tests! 🗸

Co		_	_	6
CU		C	-	L

Marks for this submission: 1.00/1.00.

# ■ Week8\_MCQ

Jump to...

Functions ►

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

Started on	Monday, 27 May 2024, 4:19 PM
State	Finished
Completed on	Monday, 27 May 2024, 4:22 PM
Time taken	2 mins 55 secs
Marks	5.00/5.00
Grade	<b>100.00</b> out of 100.00

```
Question 1
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(n):
2
        1=[4,3,2,1]
3
        j=0
4 🔻
        for i in 1:
5
            j+=n//i
            if n%i==n:
6
                 continue
8
            n%=i
9
            if n==0:
10
                 break
11
        return j
12
```

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

Passed all tests! <

Correct

Question 2
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: 25 Output: Automorphic Example input: 7 Output: Not Automorphic

### For example:

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

## Answer: (penalty regime: 0 %)

Reset answer

```
def automorphic(n):
    N=n**2
    l=str(N)
4    if 1[-1]==str(n):
        return 'Automorphic'
    return 'Not Automorphic'
7
```

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

## Passed all tests! ✓

Correct

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

An abundant number is a number for which the sum of its proper divisors is greater than

the number itself. Proper divisors of the number are those that are strictly lesser than the number.

Input Format:

Take input an integer from stdin

**Output Format:** 

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

Example input:

12

Output:

Yes

Explanation

The proper divisors of 12 are: 1, 2, 3, 4, 6, whose sum is 1 + 2 + 3 + 4 + 6 = 16. Since sum of

proper divisors is greater than the given number, 12 is an abundant number.

Example input:

13

Output:

No

Explanation

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

## For example:

Test	Result
<pre>print(abundant(12))</pre>	Yes
<pre>print(abundant(13))</pre>	No

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

Reset answer

```
1 ▼ def abundant(n):
2
        j=0
        for i in range(1,n):
3 ▼
4 •
             if n%i==0:
5
                 j+=i
6
        if j>i:
7
             return 'Yes'
8
        return 'No'
9
10
```

	Test	Expected	Got	
~	print(abundant(12))	Yes	Yes	~
<b>~</b>	print(abundant(13))	No	No	~

Passed all tests! 🗸

```
Question 4
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=<mark>0</mark>
 4 •
         for i in range(len(N)):
             if i%2==0:
 6
                 b+=int(N[i])
 7 🔻
             else:
                 c+=int(N[i])
 8
 9 🔻
         if b-c>=0:
10
             a=b-c
11 •
         else:
             a=c-b
12
13
         return a
14
15
```

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

Passed all tests! <

Correct

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

Write a code to check whether product of digits at even places is divisible by sum of digits

at odd place of a positive integer.

Input Format:

Take an input integer from stdin.

**Output Format:** 

Print TRUE or FALSE.

Example Input:

1256

Output:

TRUE

Example Input:

1595

Output:

**FALSE** 

# For example:

Test	Result
<pre>print(productDigits(1256))</pre>	True
<pre>print(productDigits(1595))</pre>	False

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 v def productDigits(n):
 2
        n_str=str(n)
 3
        odd sum=0
 4
        even_p=1
 5
        has_even_d=False
 6 ▼
        for i,digit in enumerate(n_str):
 7
            if (i+1) % 2==0:
                even_p*=int(digit)
8
 9
                has_even_d=True
10 •
            else:
11
                odd_sum+=int(digit)
        if not has_even_d:
12 •
13
            even_p=0
        if odd_sum==0:
14 •
15
            return "False"
16
17
        return "True" if even_p % odd_sum==0 else "False"
```

	Test	Expected	Got	
<b>~</b>	<pre>print(productDigits(1256))</pre>	True	True	~
<b>~</b>	<pre>print(productDigits(1595))</pre>	False	False	~

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	Thursday, 23 May 2024, 5:44 PM
State	Finished
Completed on	Sunday, 26 May 2024, 8:34 PM
Time taken	3 days 2 hours
Marks	5.00/5.00
Grade	100 00 out of 100 00

```
Question 1
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,  $\underline{\text{list}}[i]$ .

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

# Answer: (penalty regime: 0 %)

```
n=int(input())
   nums=list(map(int,input().split()))
 3
   k=int(input())
 4 v def has_sum_to_k(n, nums,k):
 5
        num_set=set()
 6 •
        for num in nums:
 7 🔻
           if k-num in num_set:
 8
                return "Yes"
            num_set.add(num)
9
10
        return "No"
print(has_sum_to_k(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 **2**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 %)

```
1  | h=int(input())
2  | a=list(map(int,input().split()))
3  | a.sort()
4  | 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

```
Question 3
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] \ge 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

8 9 10 2 6

### **Sample Output**

10 6

## For example:

Input	Result
4	12 8
12 3 6 8	

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

```
1 v def findpeak(arr):
     2
                                              n=len(arr)
     3
                                              peaks=[]
     4
                                              for i in range(n):
                                                                    if (i=0 \text{ and } arr[i])=arr[i+1]) or (i=n-1 \text{ and } arr[i])=arr[i-1]) or (0 < i < n-1 \text{ and } arr[i])=arr[i-1] and arr[i]=arr[i-1] or (0 < i < n-1) and arr[i]>=arr[i-1] and arr[i]=arr[i-1] and arr[i]=arr[i-1] or (0 < i < n-1) and arr[i]>=arr[i-1] and arr[i]=arr[i-1] and arr[i]=arr[i-1] or (0 < i < n-1) and arr[i]>=arr[i-1] and arr[i]=arr[i-1] and arr[i]=arr[i-1]
     5
                                                                                         peaks.append(arr[i])
     6
     7
                                              return peaks
     8
                      n=int(input())
                      arr=list(map(int,input().split()))
    9
                    peakelement=findpeak(arr)
 10
print(" ".join(map(str,peakelement)))
                      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 4
Correct
Mark 1.00 out of 1.00
```

To find the frequency of numbers in a  $\underline{\text{list}}$  and display in sorted order.

### **Constraints:**

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

## Input:

1 68 79 4 90 68 1 4 5

### output:

1 2

4 2

5 1

68 2

79 1

90 1

## For example:

In	р	ut	R	esult			
4	3	5	3	4	5	3	2
						4	2
						5	2

## Answer: (penalty regime: 0 %)

```
nums=list(map(int,input().split()))
fre={}

re={}

re={}

re num in nums:
    if num in fre:
        fre[num]+=1
    else:
        fre[num]=1

sortfre=dict(sorted(fre.items()))

re num, freq in sortfre.items():
    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							E	xpected	G	ot	
~	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 **5**Correct
Mark 1.00 out of 1.00

Write a Python program for binary search.

## For example:

Input	Result
1,2,3,5,8	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	<b>~</b>
~	52,45,89,43,11 11	True	True	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

## ■ Week10\_MCQ

Jump to...

Sorting ►