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

	Thursday, 14 March 2024, 1:43 PM
	Finished
	Thursday, 14 March 2024, 1:55 PM
	12 mins 1 sec
Grade	<b>10.00</b> out of 10.00 ( <b>100</b> %)
Question 1	
Correct	
Mark 1.00 out of 1.00	
AAVI- al. al. al. a. a. a. a. a. a. a.	define a block of an lette D. the a leave and
what do we use to	define a block of code in Python language?
a. Key	
<ul><li>b. Indentation</li></ul>	<b>1</b> ✓
c. Curly brac	е
<ul><li>d. Parenthesi</li></ul>	S
Your answer is cor	rect
The correct answe	
Indentation	
macmation	
Question <b>2</b>	
Correct	
Mark 1.00 out of 1.00	
What will be the ou	tput of the following python Code-
mystring="India is	
print(type(mystring	
print(t)po(myotime	
oa. str	
b. <class 'str<="" p=""></class>	/> ✓
o. class str	
od. 'str'	
Your answer is cor	
The correct answe	r is:
<class 'str'=""></class>	

5/2024, 15:40	Week1_Quiz: Attempt review   REC-PS
Question <b>3</b>	
Correct	
Mark 1.00 out of 1.00	
Which of the following <u>functions</u> is a built-in function in	n python language?
oa. val()	
Ob. printf()	
⊚ c. print() ✓	
od. scanf()	
Your answer is correct.	
The correct answer is:	
print()	
Question <b>4</b>	
Correct	
Mark 1.00 out of 1.00	
What will be the output of the following code snippet?	
print(type(5 / 2))	
O b. obj	
○ c. str	
○ d. int	
Your answer is correct.	
The correct answer is:	
float	

Oceston 5 Cerrect Mark: 1.00 out of 1.00  Which of the following declarations is incorrect in python language?  a. x_yz_n = 5,000,000  b. x_yz_n = 5,000,000  d. xyz p = 5,000,000  Your answer is correct. The correct answer is: x_yz_n = 5,000,000  Oceston 6 Cerrect 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())  The correct answer is: float(input())  Who developed the Python language?  a. Bill Gates  b. Dennis Ritchie  c. Von Neumann  d. Guide Van Rossum ✓  Your answer is: correct. The correct answer is: correct.	1, 15.16	Week!_Quiz.Fittempt to view + REC 15
Which of the following deciarations is incorrect in python language?  a. x_y_z_p = 5,000,000  b. x_yz_p = 5000,6000,7000,8000 ✓  c. x_yz_p = 5,000,000  d. x_yz_p = 5,000,000  Your answer is correct.  The correct answer is: x_y,z_p = 5000, 6000, 7000, 8000  Zueton 6  Correct  Mark 100 out of 100  Type the code to get float input from the keyboard. (No need to assign to a variable)  Answer: float(input())  The correct answer is: float(input())  Who developed the Python language?  a. Bill Gates  b. Dennis Ritchie  c. Von Neumann  d. Guido Van Rossum ✓  Vour answer is correct.  The correct answer is:		
a. x_y_z_p = 5000,000 b. x_yz_p = 5000,6000,7000,8000 ✓ c. xy_z_p = 5000,6000,7000,8000 d. xyzp = 5,000,000  Your answer is correct. The correct answer is: x_y_z_p = 5000, 6000,7000,8000  Question 6  Correct Mark 100 out of 1:00  Type the code to get float input from the keyboard. (No need to assign to a variable)  Answer: float(input())  The correct answer is: float(input())  Uusston 7  Correct Mark 100 out of 1:00  Who developed the Python language?  a. Bill Gates b. Dennis Ritchie c. Von Neumann d. G. Guido Van Rossum ✓  Vour answer is correct. The correct answer is:	Mark 1.00 out of 1.00	
<ul> <li>b. xyz.p = 5000, 6000, 7000, 8000 ✓</li> <li>c. xyz.p = 5,000,000</li> <li>d. xyzp = 5,000,000</li> </ul> Your answer is correct. The correct answer is: xyz.p = 5000, 6000, 7000, 8000 Suestion 6 Correct Meek 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(j)) The correct answer is: float[input(j)) Who developed the Python language? <ul> <li>a. Bill Gates</li> <li>b. Dennis Ritchie</li> <li>c. Von Neumann</li> <li>d. Guido Van Rossum ✓</li> </ul> Your answer is correct. The correct answer is:	Which of the following declarations is incorrect in python la	nguage?
© c. xyzp = 5,000,000  © d. xyzp = 5,000,000  Your answer is correct. The correct answer is: xy,z,p = 5,000, 6000, 7000, 8000  Correct Mark 100 out of 1,00  Type the code to get float input from the keyboard. (No need to assign to a variable)  Answer: float(input(i))  The correct answer is: float(input(i))  Who developed the Python language?  ■ a. Bill Gates  ■ b. Dennis Ritchie  ■ c. Von Neumann  ■ d. Guido Van Rossum ✓  Your answer is correct. The correct answer is:	○ a. x_y_z_p = 5,000,000	
Out answer is correct. The correct answer is: x,y,z,p = 5000, 6000, 7000, 8000  Cuestion 6 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(j))  The correct answer is: float(input(j))  Who developed the Python language?  a. Bill Gates b. Dennis Ritchie c. Von Neumann d. Guido Van Rossum ✓  Your answer is correct. The correct answer is:	b. x,y,z,p = 5000, 6000, 7000, 8000  ✓	
Your answer is correct. The correct answer is:	oc. xyzp = 5000 6000 7000 8000	
The correct answer is: x,y,z,p = 5000, 6000, 7000, 8000  Question 6 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())  The correct answer is: float(input())  Question 7 Correct Mark 1.00 out of 1.00  Who developed the Python language?  a. Bill Gates b. Dennis Ritchie c. Von Neumann d. Guido Van Rossum ✓  Your answer is correct. The correct answer is:	○ d. xyzp = 5,000,000	
Cuestion 6 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())  The correct answer is: float(input())  Question 7 Correct Mark 1:00 out of 1:00  Who developed the Python language?  a. Bill Gates b. Dennis Ritchie c. Von Neumann d. Guido Van Rossum ✓  Your answer is correct. The correct answer is:	Your answer is correct.	
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())  The correct answer is: float(input())  Question 7  Correct Mark 1.00 out of 1.00  Who developed the Python language?  a. Bill Gates b. Dennis Ritchie c. Von Neumann d. Guido Van Rossum ✓  Your answer is correct. The correct answer is:		
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())  The correct answer is: float(input())  Question 7  Correct  Mark 1.00 out of 1.00  Who developed the Python language?  a. Bill Gates  b. Dennis Ritchie  c. Von Neumann  d. Guido Van Rossum ✓  Your answer is correct.  The correct answer is:		
Type the code to get float input from the keyboard. (No need to assign to a variable)  Answer: float(input())  The correct answer is: float(input())  Question 7  Correct  Mark 1.00 out of 1.00  Who developed the Python language?  a. Bill Gates  b. Dennis Ritchie  c. Von Neumann  d. Guido Van Rossum ✓  Your answer is correct.  The correct answer is:		
Correct  Mark 1.00 out of 1.00  Who developed the Python language?  a. Bill Gates b. Dennis Ritchie c. Von Neumann d. Guido Van Rossum ✓  Your answer is correct.  The correct answer is:	Answer: float(input())  The correct answer is: float(input())	d to assign to a variable)
Mark 1.00 out of 1.00  Who developed the Python language?  a. Bill Gates b. Dennis Ritchie c. Von Neumann d. Guido Van Rossum ✓  Your answer is correct. The correct answer is:		
Who developed the Python language?  a. Bill Gates b. Dennis Ritchie c. Von Neumann d. Guido Van Rossum ✓  Your answer is correct. The correct answer is:		
<ul> <li>a. Bill Gates</li> <li>b. Dennis Ritchie</li> <li>c. Von Neumann</li> <li>d. Guido Van Rossum ✓</li> </ul> Your answer is correct. The correct answer is:		
<ul> <li>c. Von Neumann</li> <li>d. Guido Van Rossum ✓</li> </ul> Your answer is correct. The correct answer is:	○ a. Bill Gates	
<ul> <li>c. Von Neumann</li> <li>d. Guido Van Rossum ✓</li> </ul> Your answer is correct. The correct answer is:		
<ul><li>● d. Guido Van Rossum ✓</li><li>Your answer is correct.</li><li>The correct answer is:</li></ul>		
Your answer is correct. The correct answer is:		
The correct answer is:	■ d. Guido Van Rossum ✓	
	Your answer is correct.	

5/2024, 15:40	Week1_Quiz: Attempt review   REC-PS
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?
○ ap	
Obpython	
⊚ cpy ✓	
odcpp	
Your answer is correct.	
The correct answer is:	
.py	
Question <b>9</b>	
Correct	
Mark 1.00 out of 1.00	
What will be the detained of the year in the below and	a antique 40
What will be the datatype of the var in the below code var = 10	e snippet?
print(type(var))	
var = "Hello"	
print(type(var))	
p(-)  (/)	
a. int and int	
o b. float and str	
◎ c. int and str ✓	
od. No output	
Your answer is correct.	
The correct answer is:	
int and str	

Question 10
Correct
Mark 1.00 out of 1.00

What will be the output of the following code snippet?

a = 3

b = 1

print(a, b)

a, b = b, a

print(a, b)

a. 31 ✓

13

ob. 31

3 1

o. No output

od. 13

3 1

Your answer is correct.

The correct answer is:

3 1

13

# ■ Basics of Python

Jump to...

Week1\_Coding ▶

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

Started on	Thursday, 14 March 2024, 1:56 PM
State	Finished
Completed on	Thursday, 4 April 2024, 1:56 PM
Time taken	21 days
Marks	6.00/6.00
Grade	<b>100.00</b> 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 10.9	10, <class 'int'=""> 10.9,<class 'float'=""></class></class>

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

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2	
Correct	
Mark 1.00 out of 1.00	

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

Sample Input:

10000

Sample Output:

16000

#### For example:

Input	Result
10000	16000

Answer: (penalty regime: 0 %)

```
basic=int(input())
da = basic * 0.4
ra = basic*0.2
salary= basic+da+ra
print(int(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 %)

```
1 a=float(input())
2 root=a**0.5
```

3   print(round(root,3))		
		//

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

Passed all tests! 🗸

Correct

Question **4**Correct

Mark 1.00 out of 1.00

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

Input Format:

The first line contains the Rs X

The second line contains Rs Y

The third line contains Rs Z

Sample Input:

10000

250

15000

Sample Output:

46.34 is the gain percent.

#### For example:

Input	Result		
45500	30.43 is the gain 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 20	Your total refund will be \$7.00.

Answer: (penalty regime: 0 %)

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

Passed all tests! ✓

Correct

Question **6**Correct

Mark 1.00 out of 1.00

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

#### Hint:

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

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

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

#### Sample Input:

450

#### **Sample Output:**

weekdays 10.38

weekend 0.38

#### For example:

Input	Result
450	weekdays 10.38 weekend 0.38

```
1 | s=int(input())

2 | c=s-500

3 | x=abs(c/130)

4 | y=x+10

5 | print("weekdays %.2f"%y)

6 | print("weekend %.2f"%x)
```

	Input	Expected	Got	
~	450	weekdays 10.38 weekend 0.38	weekdays 10.38 weekend 0.38	~
~	500	weekdays 10.00 weekend 0.00	weekdays 10.00 weekend 0.00	~

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

#### ■ Week1\_Quiz

Jump to...

Operators >

# <u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Operators and Formatting Output.</u> / <u>Week2\_MCQ</u>

Started on	Thursday, 28 March 2024, 1:12 PM
State	Finished
Completed on	Sunday, 14 April 2024, 7:23 AM
Time taken	16 days 18 hours
Grade	<b>0.00</b> out of 15.00 ( <b>0</b> %)
Question 1	
Incorrect	
Mark 0.00 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)
```







d. True False True

Your answer is incorrect.

The correct answer is:

True

False

True

Question 2	
Not answered	
Marked out of 1.00	
In the Python statement $x = a + 6 - c-d$ :	
a and b are	
• a + 6 - c-d is	
a. operators, a statement	
<ul><li>b. operands, an expression</li></ul>	
c. terms, a group	
od. operands, an equation	
Your answer is incorrect.	
The correct answer is:	
operands, an expression	
Question 3	
Not answered	
Marked out of 1.00	
What is the output of the following code	
x = 5	
y = 3	
print(x == y)	
○ a. 5==3	
○ b. True	
○ c. Error	
od. False	
Your answer is incorrect.	
The correct answer is:	
False	

6/2024, 15:54	Week2_MCQ: Attempt review   REC-PS
Question 4	
Not answered	
Marked out of 1.00	
What is the value of the expression 1+2**3*4+12*((	100+4)*10-200//10) ?
○ a. 12493	
○ b24568	
○ c. <sub>12273</sub>	
○ d23679	
Your answer is incorrect.	
The correct answer is:	
12273	
Question <b>5</b>	
Not answered	
Marked out of 1.00	
What will be the value of x in the following Python expres	sion, if the result of that expression is 2?
x>>2	
○ a. 4	
○ b. 1	
○ c. 8	
O d. 2	
Your answer is incorrect.	
The correct answer is:	
8	

Question **6**Not answered

Marked out of 1.00

Which of the following statements assigns the value 35 to the variable x in Python:

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

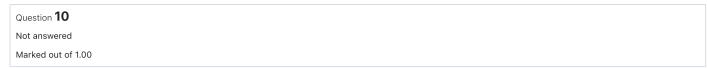
Your answer is incorrect.

The correct answer is:

x = 35

Question <b>7</b>
Not answered
Marked 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))
print(type(x))
a. <class 'complex'=""></class>
b. <class 'float'=""></class>
C. <class 'int'=""></class>
○ d.
<class '<u="">list'&gt;</class>
Your answer is incorrect.
The correct answer is:
The contest unioner to.
<class '<u="">list'&gt;</class>

, 2021, 13.31	week2_Meg. Mempire with the To
Question <b>8</b>	
Not answered	
Marked out of 1.00	
An identifier can have a maximum length of	characters in Python.
a. 50	
o b. 31	
o c. 79	
0 d. 7	
_ d. /	
Your answer is incorrect.	
The correct answer is:	
79	
Question <b>9</b>	
Not answered	
Marked out of 1.00	
Which of the following type of Python operations	ator will only print True or False in output when we use it in our program?
<ul><li>a. Membership Operator</li></ul>	
b. Arithmetic Operator	
c. Assignment Operator	
d. Comparison Operator	
Your answer is incorrect.	
The correct answers are:	
Membership Operator,	
Comparison Operator	
обтратооп Орегатог	



# What is the output of the following code

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

a. 0

64

ob. 64

8

4

c. 64

4

od. 64

0

# Your answer is incorrect.

#### The correct answer is:

64

4

Question 11

Not answered

Marked out of 1.00

# What is the order of precedence in python?

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

Your answer is incorrect.

The correct answer is:

3,5,1,2,4

06/2024, 15:54	Week2_MCQ: Attempt review   REC-PS	
Question 12		
Not answered		
Marked out of 1.00		
What will be the output of statement 2**2	**2**2	
a. 65536		
o b. 256		
oc. 16		
od. 32768		
Your answer is incorrect.		
The correct answer is:		
65536		
Question 13		
Not answered		
Marked out of 1.00		
Which among the following <u>list</u> of <u>operators</u> I	nas the highest precedence?	
+, -, **, %, /, <<, >>,		
○ a.		
O b. %		
C. **		
○ d. <<,>>		
Your answer is incorrect.		
The correct answer is:		
**		

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51 E 0 E 1, 1 5 . 5 1	Week2_Week. The my review The To
Question 14	
Not answered	
Marked out of 1.00	
What is the output of the following code: print 11//2?	
○ a. 5.5	
o b. 5.0	
○ c. 5	
od. Error	
Your answer is incorrect.	
The correct answer is:	
Error	
Question 15	
Not answered	
Marked out of 1.00	
What is the truste consultaneous of 440	
What is the two's complement of -44?	
a. 11101011	
o b. 1011011	
o. 10110011	
od. 11010100	
Your answer is incorrect.	
The correct answer is:	
11010100	
Jump to	

Week2\_Coding ▶

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

Started on	Thursday, 14 March 2024, 1:42 PM
State	Finished
Completed on	Sunday, 14 April 2024, 11:23 PM
Time taken	31 days 9 hours
Overdue	29 days 9 hours
Marks	15.00/19.00
Grade	<b>78.95</b> out of 100.00

Question 1
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 25 23 20 10	True False True True	True False True True	~
~	4 23 24 21 12	False True False True	False True False True	~
<b>~</b>	8 64 8 16 32	True True True True	True True True True	~

Passed all tests! 🗸

Correct

Question **2**Not answered

Mark 0.00 out of 1.00

Note:

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

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

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

Input Format:

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

Output Format:

Display True(IF ELIGIBLE)

Display False (if not eligible)

Sample Input

19

45

Sample Output

True

# For example:

Input	Result
18	False
40	

1	
	//

Question <b>3</b>		
Not answered		
Mark 0.00 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

1	
	//

Question 4

Not answered

Mark 0.00 out of 1.00

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

#### For example:

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

Question **5**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	<b>~</b>
~	800 4590	False	False	<b>~</b>

	Input	Expected	Got	
~	6789 32996	True	True	~

Passed all tests! 🗸

Correct

Question 6

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 x=int(input())
- 2 x=abs(x)
- 3 a=x%10
- 4 print(a)

	Input	Expected	Got	
~	197	7	7	~
~	-197	7	7	<b>~</b>

Passed all tests! 🗸

Correct

Question **7**Not answered

Mark 0.00 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

1		
		//

Question 8
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,  $0 \le x \le 1$ .

#### **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 | h=int(input())
2 | print(n and 'D'or'C')
```

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

Correct

Question 9

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 %)

1 n=int(input())

2 d1=n&1

3 n=n>>1

4 d2=n&1

5 n=n>>1

6 d3=n&1

7 n=n>>1

8 d4=n&1

9 n=n>>1

10 print(d1+d2+d3+d4)

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

Passed all tests! 🗸

Correct

Correct

Question 10

Mark 10.00 out of 10.00

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

Sample Input:

10

20

Sample Output:

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

Answer: (penalty regime: 0 %)

```
a=int(input())
2
   b=int(input())
3
   c=a*75 +b*112
   print("The total weight of all these widgets and gizmos is",(c),"grams.")
```

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

Passed all tests! <

Correct

Marks for this submission: 10.00/10.00.

#### ■ Week2\_MCQ

Jump to...

Selection control structures ▶

## Dashboard / My courses / PSPP/PUP / Algorithmic Approach: Selection control structures / Week3 mcg

Started on	Tuesday, 16 April 2024, 7:57 PM
State	Finished
Completed on	Tuesday, 16 April 2024, 8:25 PM
Time taken	27 mins 52 secs
Grade	<b>11.00</b> out of 15.00 ( <b>73.33</b> %)
Question 1	
Incorrect	
Mark 0.00 out of 1.00	

if(x=-1):

Your answer is incorrect.

The correct answer is: present

• •	
Question 2	
Correct	
Mark 1.00 out of 1.00	

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

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

a. 4

ob. 2

© c. 3 ✓

d. 0

Your answer is correct.

The correct answer is:

3

5/2024, 15:55	Week3_mcq: Attempt review   REC-PS
Question <b>3</b>	
Correct	
Mark 1.00 out of 1.00	
what will be the output for the following question?	
a, b = 12, 5	
if a + b:	
print('True')	
else:	
print('False')	
○ a. Error	
○ c. False	
Your answer is correct.	
The correct answer is:	
True	
Question <b>4</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	
ob. syntax error	
⊚ c. 2002 ✓	
Your answer is correct.	
The correct answer is:	
2002	

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

What is the output of the given below program?

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

else:

print("Know Program")

- a. Error
- b. Compiled Successfully, No Output.
- o. Hello

Your answer is correct.

The correct answer is:

**Know Program** 

Question **6** 

Incorrect

Mark 0.00 out of 1.00

Which of the following is true about the code below?

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

- $\bigcirc$  a. x will always equal 0 after this code executes for any value of x
- $\odot$  b. if x is greater than 2, the value in x will be doubled after this code executes  $\times$
- o. if x is lesser then 0,x will be 0 after this code executes
- $\bigcirc$  d. if x is greater than 2, x will equal 0 after this code executes

Your answer is incorrect.

The correct answer is:

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

5/2024, 15:55	Week3_mcq: Attempt review   REC-PS
Question <b>7</b>	
Incorrect	
Mark 0.00 out of 1.00	
is an empty statement in Py	thon.
a. pass	
oc. Jump	
od. None	
Your answer is incorrect.	
The correct answer is:	
pass	
Question 8	
Incorrect	
Mark 0.00 out of 1.00	
Can we write if/else into one line in python?	
⊚ a. No ×	
○ b. Yes	
Your answer is incorrect.	
The correct answer is:	
Yes	

Question **9**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)
```

oa. No output

REC

- b. REC 
  ✓
- oc. REC

REC

od. false

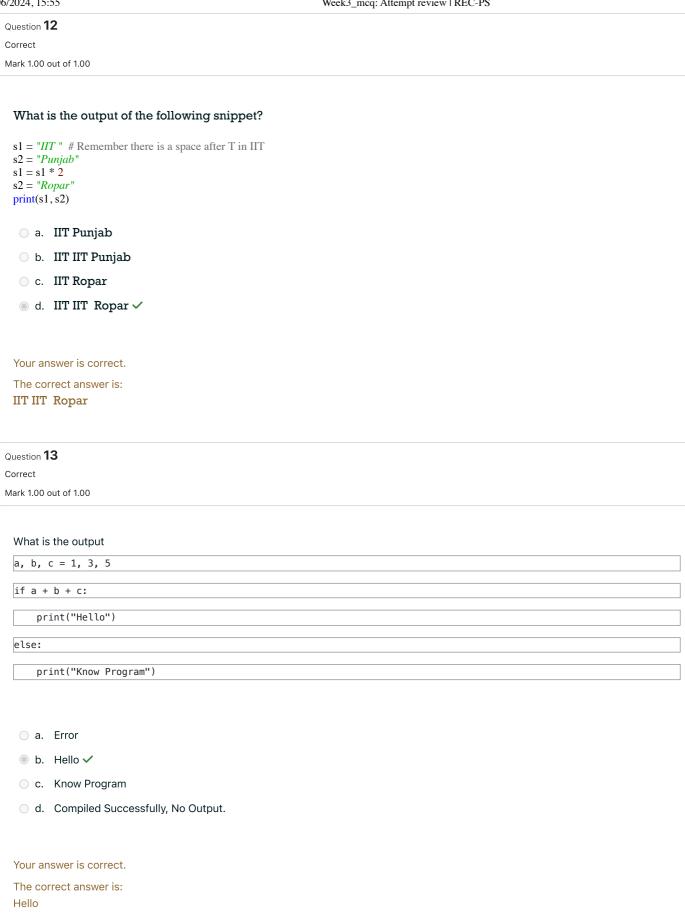
REC

Your answer is correct.

The correct answer is:

REC

Question 10
Correct
Mark 1.00 out of 1.00
x,y=1,2
if(x or y):
print("1")
else:
print("0")
a. Runtime error
○ b. Compile time error
⊚ c. 1✓
○ d. 0
Your answer is correct.
The correct answer is:  1
Question 11
Correct  Mark 1.00 out of 1.00
Mark 1.00 out of 1.00
Mark 1.00 out of 1.00
Write the output of the following code :  y=2
Write the output of the following code :  y=2  if 2!=y:
Write the output of the following code:  y=2  if 2!=y:  print("H")
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:
Write the output of the following code:  y=2  if 2!=y:  print("H")
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:  print("K")
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:  print("K")
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:  print("K")   a. No output  b. H
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:  print("K")   a. No output  b. H  c. Error
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:  print("K")   a. No output  b. H
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:  print("K")   a. No output  b. H  c. Error
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:  print("K")   a. No output  b. H  c. Error
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:  print("K")   a. No output  b. H  c. Error  d. K ✓  Your answer is correct. The correct answer is:
Write the output of the following code:  y=2  if 2!=y:  print("H")  else:  print("K")   a. No output  b. H  c. Error  d. K ✓  Your answer is correct.



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5/2024, 15:55	Week3_mcq: Attempt review   REC-PS
Question 14	
Correct	
Mark 1.00 out of 1.00	
What keyword would you use to a	add an alternative condition to an if statement?
a. None of the above	
ob. elseif	
oc. else if	
d. elif  ✓	
Your answer is correct.	
The correct answer is:	
elif	
Question 15	
Correct	
Mark 1.00 out of 1.00	
Python supports	types of control structures.
○ a. 2	
<ul><li>b. 3 ✓</li></ul>	
0 c. 4	
O d. 1	
Your answer is correct.	
The correct answer is:	
3	
■ Selection control structures	
Jump to	
camp to	

Week3\_coding ▶

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

Started on	Tuesday, 16 April 2024, 8:42 PM
State	Finished
Completed on	Wednesday, 17 April 2024, 11:35 PM
Time taken	1 day 2 hours
Marks	9.00/10.00
Grade	<b>90.00</b> out of 100.00

```
Question 1
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

С

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.

```
| L=input()
| if L=='a'or L=='e' or L=='i' or L=='u':
| print("It's a vowel.")
| elif L=='y':
| print("Sometimes it's a vowel... Sometimes it's a consonant.")
| else:
| print("It's a consonant.")
```

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

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

Correct

Question 2

Correct

Mark 1.00 out of 1.00

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

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

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

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

### For example:

Input	Result
197	9
5	-1

Answer: (penalty regime: 0 %)

```
| h=int(input())
| if n<0:
| n=-n
| if n<10:
| print(-1)
| else:
| a=n%100//10
| print(abs(a))
```

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

Passed all tests! ✓

Correct

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

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

Sample Input 1

February

Sample Output 1

February has 28 or 29 days in it.

Sample Input 2

March

Sample Output 2

March has 31 days in it.

Sample Input 3

April

Sample Output 3

April has 30 days in it.

#### For example:

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

```
m=input()
if m=='January'or m=='March'or m=='May'or m=='July'or m=='August'or m=='October'or m=='December':
    print(m, "has 31 days in it.")
elif m=='February':
    print(m, "has 28 or 29 days in it.")
else:
    print(m, "has 30 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.	~

Correct

```
Question 4
Correct
```

Mark 1.00 out of 1.00

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

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

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

Sample Test Cases

Test Case 1

Input

50

Output

100.00

Test Case 2

Input

300

Output

517.50

#### For example:

Input	Result
100.00	120.00
500	1035.00

```
a=float(input())
 2
   b=0
 3 v if a<=199:
 4
        b=1.20
 5 🔻
    elif a<=399:
        b=1.50
 6
 7 🔻
    elif a<=599:
 8
        b=1.80
9
10
        b=2.00
11
    total=a*b
12 v if total>400:
        total=total*0.15+total
13
14 ▼
    if total<100:
15
        total=100
16
    print(total)
17
```

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

Correct

```
Question 5
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	

```
a=int(input())
 2
    b=int(input())
 3
    c=int(input())
 4 v if a==b==c:
 5
        print("That's a equilateral triangle")
 6 ▼
    elif a==b!=c:
 7
        print("That's a isosceles triangle")
 8 v else:
        print("That's a scalene triangle")
 9
10
```

	Input	Expected	Got	
~	60 60 60	That's a equilateral triangle	That's a equilateral triangle	<b>~</b>
<b>~</b>	40 40 80	That's a isosceles triangle	That's a isosceles triangle	<b>~</b>
~	50 60 70	That's a scalene triangle	That's a scalene triangle	~
<b>~</b>	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	~

Correct

```
Question 6
Incorrect
Mark 0.00 out of 1.00
```

Most years have 365 days. However, the time required for the Earth to orbit the Sun is actually slightly more than that. As a result, an extra day, February 29, is included in some years to correct for this difference. Such years are referred to as leap years. The rules for determining whether or not a year is a leap year follow:

- Any year that is divisible by 400 is a leap year.
- Of the remaining years, any year that is divisible by 100 is not a leap year.
- Of the remaining years, any year that is divisible by 4 is a leap year.
- · All other years are not leap years.

Write a program that reads a year from the user and displays a message indicating whether or not it is a leap year.

Sample Input 1

1900

Sample Output 1

1900 is not a leap year.

Sample Input 2

2000

Sample Output 2

2000 is a leap year.

Answer: (penalty regime: 0 %)

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

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

Show differences

Incorrect



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	0UT
3	

	Input	Expected	Got	
~	8	OUT	OUT	<b>~</b>
~	8 5	IN	IN	<b>~</b>
~	20 9	OUT	0UT	<b>~</b>
~	50 31	IN	IN	<b>~</b>

Correct

```
Question 8
```

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		
		П

```
M=int(input())
P=int(input())
C=int(input())
total=M+P+C
for if M>=65 and P>=55 and C>=50 or total>=180:
print("The candidate is eligible")
else:
print("The candidate is not eligible")
g
```

	Input	Expected	Got	
~	70 60 80	The candidate is eligible	The candidate is eligible	~
~	50 80 80	The candidate is eligible	The candidate is eligible	~
~	50 60 40	The candidate is not eligible	The candidate is not eligible	~
~	20 10 25	The candidate is not eligible	The candidate is not eligible	~

Correct

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

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

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

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

Sample Input

3

5

4

Sample Output

yes

Sample Test Cases

Test Case 1

Input

3

5

4

Output

yes

Test Case 2

Input

5

8

2

Output

no

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

Correct

```
Question 10
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.

```
y=int(input())
 2 v if y>=0 and y%12==8:
3     print(y,"is the year of the Dragon.")
 4 v elif y>=0 and y%12==9:
        print(y,"is the year of the Snake.")
 6 + elif y = 0 and y \% 12 == 10:
        print(y,"is the year of the Horse.")
 8 v elif y>=0 and y%12==11:
        print (y,"is the year of the Sheep.")
 9
10 •
    elif y>=0 and y\%12==0:
        print(y,'is the year of the Monkey.')
11
12 v elif y>=0 and y%12==1:
13
        print(y,'is the year of the Rooster.')
14 ▼
    elif y>=0 and y%12==2:
         print(y,'is the year of the Dog.')
15
16 🔻
    elif y>=0 and y%12==3:
        print(y,'is the year of the Pig.')
17
    elif y>=0 and y\%12==4:
18
19
        print(y,'is the year of the Rat.')
    elif y>=0 and y%12==5:
20 •
        print(y,'is the year of the 0x.')
21
22
    elif y>=0 and y\%12==6:
23
        print(y,'is the year of the Tiger.')
24 🔻
25
        print(y,'is the year of the Hare.')
```

	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.	~

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\_mcq</u>

St	arted on	Sunday, 21 April 2024, 5:23 PM
		Finished
		Sunday, 21 April 2024, 5:38 PM
Tin	ne taken	15 mins 3 secs
Question 1		
Complete		
	range(10	t will print the statement?
print		
ſ		
Answer:	102	
Question 2		
Complete		
		t will print the statement?
for i in	range(10	02):
p. 2	(1)	
Answer:	102	
l		
Question <b>3</b>		
Complete		
i=1		
while Tr		
	if i%0o7=	==0: preak
	print(i)	or car.
	i+=1	
Predict	the outpu	ut of the following?
○ a. 7	,	
O b. 0	12345	6 7
O c. 1	23456	7
	23430	
_ d 1	23456	

Question <b>4</b> Complete	
For loop follows which principle?	
a. Single responsibility	
<ul><li>b. Don't Repeat Yourself (DRY)</li></ul>	
c. Open/closed	
<ul><li>d. You Aren't Going to Need It(YAGNI)</li></ul>	
Question 5	
Complete	
For loop in python is	
a. Simple Loop	
○ b. Exit Control Loop	
o. Multi Control Loop	
<ul><li>□ d. Entry Control Loop</li></ul>	
Question 6	
Complete	
How many times the loop run? for i in range(-3):	
print(i)	
Answer: 0	
Question 7	
Complete	
While loop can execute a <u>set</u> of statements till	
a. The condition starts executing	
○ b. The condition stops executing	
c. The condition is False	
<ul><li>d. The condition is True</li></ul>	

```
Question 8
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 9 12 18
  o b. 03691215
  oc. 0369121518
  d. Compilation error
Question 9
Complete
 A while loop in python is used for what type of iteration?
  a. discriminant
  b. definite
  o. indiscriminant
  od. indefinite
Question 10
Complete
 The range() function returns a
  a. sequence of lists
  b. sequence of bytes
  c. sequence of numbers
  od. sequence of set
Question 11
Complete
 Syntax of range()
  a. (start, stop, step)
  b. (step, stop, start)
  o. (start, step, stop)
  d. (stop, step, start)
```

```
Question 12
Complete
 numbers = (8, 9, 11, 20)
 a = 1
 for num in numbers:
      a = a * num
 print(a)
 Predict the output of the program?
          15840
 Answer:
Question 13
Complete
 A for loop can iterate over a
  a. bool
  ob. list
  oc. integer
  d. float
Question 14
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 15
Complete
 For loop in python is
  a. Simple Loop
  b. Entry Control Loop
  oc. Multi Control Loop
  od. Exit Control Loop
```

## ◀ Iteration control structures

Jump to...

Week4\_Coding ▶

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

Started on	Monday, 15 April 2024, 10:38 AM
State	Finished
Completed on	Saturday, 27 April 2024, 7:57 PM
Time taken	12 days 9 hours
Overdue	10 days 9 hours
Marks	10.00/10.00
Grade	100.00 out of 100.00

Question **1**Correct

Mark 1.00 out of 1.00

Write a program to 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.a.

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 %)

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

Passed all tests! 🗸

Correct

Question 2

Correct

Mark 1.00 out of 1.00

Given a 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 %)

```
| n=int(input())
| for i in range(1,n+1):
| a=i*i
| if a>=n:
| print(a)
| break
```

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

Passed all tests! 🗸

Correct

Question **3**Correct

Mark 1.00 out of 1.00

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

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

Assumption:  $2 \le N \le 5000$ , where N is the given number.

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

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

#### For example:

Input	Result
7	2
10	1

Answer: (penalty regime: 0 %)

```
a=int(input())
 2
    b=2
 3 + \text{for i in range(2,a):}
 4
         if (a\%i) == 0:
             b=1
 6
             break
 7 🔻
    if b==1:
 8
        print(1)
 9 v else:
10
         print(b)
```

	Input	Expected	Got	
~	7	2	2	<b>~</b>
<b>~</b>	10	1	1	~

Passed all tests! 🗸

Correct

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

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

Input Format:

Single Integer Input from stdin.

**Output Format:** 

Yes or No.

Example Input:

175

Output:

Yes

Explanation

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

Example Input:

123

Output:

No

#### For example:

Input	Result
175	Yes
123	No

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

```
n=int(input())
 1
 2
    temp=n
 3
    d=0
    while n!=0:
 5
        n=n//10
 6
        d=d+1
 7
    n=temp
 8
    sum=0
 9 v while n!=0:
10
        rem=n%10
        sum=sum+(rem**d)
11
12
        n=n//10
13
        d=d-1
14 v if sum==temp:
15
        print('Yes')
16 v else:
        print('No')
17
```

	Input	Expected	Got	
~	175	Yes	Yes	~
<b>~</b>	123	No	No	~

Passed all tests! 🗸



Marks for this submission: 1.00/1.00.

```
Question 5
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 %)

```
1 | a=int(input()) | n=0 | s=0 | for i in range(1,a+1): | s=s*10+1 | n+=s | print(n) |
```

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

Passed all tests! 🗸

Correct

Question **6**Correct

Mark 1.00 out of 1.00

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

Input Format:

Single Integer input.

**Output Format:** 

Output displays Yes if condition satisfies else prints No.

Example Input:

14

Output:

Yes

Example Input:

13

Output:

No

Answer: (penalty regime: 0 %)

```
n=int(input())
 2
    flag=0
 3 🔻
    for i in range(1,10):
 4 •
        for j in range(1,10):
 5
            if i*j==n:
 6
                flag=1
 7
                break
 8 v if flag==1:
        print("Yes")
9
10 v else:
        print("No")
11
```

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

Passed all tests! 🗸

Correct

Question **7**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 %)

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

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 %)

```
| a=int(input())
| n=a+1
| N=int(n**0.5)
| if N*N=n:
| print("Yes")
| 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
```

$$4! = 4 \times 3 \times 2 \times 1 = 24$$

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

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

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

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

Assumptions for this program:

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

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

## For example:

Input	Result
5	120
4	24
9	362880

Answer: (penalty regime: 0 %)

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

Passed all tests! 🗸

Correct

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

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

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

NOTE: Fibonacci series looks like -

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

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

- · first Fibonacci number is 0,
- second Fibonacci number is 1,
- third Fibonacci number is 1,
- · fourth Fibonacci number is 2,
- · fifth Fibonacci number is 3,
- sixth Fibonacci number is 5,
- seventh Fibonacci number is 8, and so on.

#### For example:

Input	Result
1	0
4	2
7	8

Answer: (penalty regime: 0 %)

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

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

■ Week4\_mcq

Jump to...

Strings ►

# Dashboard / My courses / PSPP/PUP / Experiments based on Strings and its operations. / Week5\_MCQ

Started on	Saturday, 4 May 2024, 7:16 PM
State	Finished
Completed on	Saturday, 4 May 2024, 7:43 PM
Time taken	27 mins 4 secs
Grade	<b>10.00</b> out of 15.00 ( <b>66.67</b> %)
Question <b>1</b> Incorrect Mark 0.00 out of 1.00	

What is the output of "hello"+1+2+3?

a. hello6

b. hello123 X

o. Error

d. hello

Your answer is incorrect.

The correct answer is:

Error

5/2024, 15:57	Week5_MCQ: Attempt review   REC-PS
Question <b>2</b>	
Correct	
Mark 1.00 out of 1.00	
my_string = "arvjayakumar"	
i = "i"	
while i in my_string:	
print(i, end =" ")	
print(i, cha = )	
🔾 a. arvjayakumar	
○ b. arvjayakumar	
⊚ c. None ✓ 'i' is not present in string 'arvjayakumar'	
○ d.	
Your answer is correct.	
The correct answer is:	
None	
Question <b>3</b>	
Correct	
Mark 1.00 out of 1.00	
What is the output of the following Code?	
str1="123456789"	
print(str1[2:6:2])	
Annuar 05	
Answer: 35	

The correct answer is: 35

```
Question 4
Correct
Mark 1.00 out of 1.00
 What is the output of the following code?
 str1="vijay"
 for i in range(len(str1),6):
   print(i)

    a. 5 ✓
  b. None of the above
  o. у
  d. vijay
 Your answer is correct.
 The correct answer is:
Question 5
Correct
Mark 1.00 out of 1.00
 What is the output of the following code?
 my_string = 'vijay'
 for i in range(len(my_string)):
    print (my_string)
     my_string = 'a'
  oa. Error
  b. vaaaaaaaaaaa
  d. None
 Your answer is correct.
 The correct answer is:
 vijay a a a a
```

www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=10841&cmid=99

Question <b>6</b> Correct Mark 1.00 ou	rt of 1.00
	the output of the following Code?
print(chr	(70))
Answer:	f ~
The corr	ect answer is: F
Question <b>7</b>	
Correct Mark 1.00 ou	rt of 1.00
Wark 1.00 da	
What is t	the output of the following Code?
str1="arv	/ijayakumar"
print(str1	I[::-1])
Answer:	ramukayajivra
The corr	ect answer is: ramukayajivra
Question <b>8</b>	
Incorrect Mark 0.00 ou	ut of 1.00
What is t	the output of "Vijay"+1+2+3?
○ a. I	Error
6 b.	
	Vijay123 ×
O d. \	
Your ans	wer is incorrect.
The corre	ect answer is:

5/2024, 15:57	Week5_MCQ: Attempt review   REC-PS
Question <b>9</b>	
Incorrect	
Mark 0.00 out of 1.00	
Miles the Alexandra of the fellowing and a O	
What is the output of the following code?	
example = "snow world"	
example[3] = 's'	
print example	
a. Error	
O b. snow	
oc. snow world	
<ul><li>d. snos world X</li></ul>	
Your answer is incorrect.	
The correct answer is:	
Error	
Question 10	
Correct	
Mark 1.00 out of 1.00	
What arithmetic operators cannot be used with string	<u>s</u> in Python?
○ a. *	
○ b. +	
c. All of the mentioned	
<ul><li>d ✓</li></ul>	
⊕ u •	
Your answer is correct.	
The correct answer is:	
-	

5/2024, 15:57	Week5_MCQ: Attempt review   REC-PS
Question 11	
Correct	
Mark 1.00 out of 1.00	
What is the output of the following code ?	
a = '''A	
B C''' print(a)	
<ul><li>a. A</li><li>B</li><li>C</li></ul>	
Ob. Error	
C. ABC	
○ d. 🛕	
ВС	
Your answer is correct.	
The correct answer is:	
A B C	

Question 12
Incorrect
Mark 0.00 out of 1.00

what is the output of the following?
<pre>my_string = 'arvijayakumar' for i in range(len(my_string)):         my_string[i].upper() print (my_string)</pre>
a. ARVIJAYAKUMAR
○ c. Error
○ d. arvijayakumar
Your answer is incorrect.
The correct answer is: arvijayakumar
Question 13 Correct

What is the output of the following Code?					
str1="6/4" print("str1")					
print( Stri )					
Answer: str1			/		

Explanation: Since in print statement, str1 is written inside double quotes so it will simply print str1 directly.

The correct answer is: str1

Mark 1.00 out of 1.00

10/2024, 13.37	weeks_integ. Attempt review   REC-13
Question 14	
Correct	
Mark 1.00 out	t of 1.00
What is tl	he output of the following Code?
print(ord)	
print(ora)	
Answer:	<b>6</b> 7 <b>✓</b>
l	
The corre	ect answer is: 67
Question 15	
Incorrect	
Mark 0.00 ou	it of 1.00
Which of	the following will give "Vijay" as output?
str1="Joh	nn,Vijay,Aryan"
○ a. p	orint(str1[-7:-12])
b. p	orint(str1[-11:-7]) ×
○ c. p	print(str1[-7:-11])
( d. p	orint(str1[-11:-6])
Your answ	wer is incorrect.
	ect answer is:
print(str1	[-11:-6])
String	gs
Jump to	)
	Week5_Coding ▶

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

Started on	Thursday, 16 May 2024, 3:15 PM
State	Finished
Completed on	Friday, 17 May 2024, 8:10 PM
Time taken	1 day 4 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

String should contain only the words are not palindrome.

# Sample Input 1

Malayalam is my mother tongue

## Sample Output 1

is my mother tongue

Answer: (penalty regime: 0 %)

```
1 | s=input() | s1=s.lower() | s2=s1.split() | for i in s2: | if i!=i[::-1]: | print(i,end=' ') | print(i,end=' ')
```

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

Passed all tests! 🗸

Correct

Question **2**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 %)

	Input	Expected	Got	
<b>~</b>	Wipro Technologies Bangalore	TECHNOLOGIES	TECHNOLOGIES	~
<b>~</b>	Hello World	WORLD	WORLD	~
<b>~</b>	Hello	LESS	LESS	~

Passed all tests! 🗸

Correct

Question **3**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	
<b>~</b>	experience enc	xpri	xpri	<b>~</b>

Passed all tests! 🗸

Correct

Question 4

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

ರ

Output:

bcd

#### Note:

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

## Answer: (penalty regime: 0 %)

```
1 | s1=input()
2 | s2=input()
3 | n=int(input())
4 | cc="".join(sorted(set(s1)&set(s2),key=s1.index)[:n])
5 | print(cc)
```

	Input	Expected	Got	
<b>~</b>	abcbde cdefghbb 3	bcd	bcd	~

Passed all tests! 🗸

Correct

Question **5**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 %)

```
s=input()
ns=''.join([c for c in s[::-1]if c.isalpha()])
i=0
for c in s:
    if not c.isalpha():
        ns=ns[:i]+c+ns[i:]
    i=i+1
print(ns)
```

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

Passed all tests! 🗸

Correct

Question **6**Correct
Mark 1.00 out of 1.00

Assume that the given string has enough memory.

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

# Sample Input 1

a2b4c6

# Sample Output 1

aabbbbccccc

Answer: (penalty regime: 0 %)

```
a=input()
 2
    temp=0
ch=""
 4 ▼
    for i in a:
 5
         if i.isalpha():
 6
              print(ch*temp,end="")
 7
              temp=<mark>0</mark>
 8
              ch=i
 9
         else:
              temp=temp*10+int(i)
10
11 | print(ch*temp,end="")
```

	Input	Expected	Got	
~	a2b4c6	aabbbbcccccc	aabbbbcccccc	~
~	a12b3d4	aaaaaaaaaabbbdddd	aaaaaaaaaabbbdddd	~

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 %)

Allswer. (penalty regime. 0.76)							
1   s1=input( 2   s2=input( 3   print(s1	() () in s2)						
						/1	

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

Passed all tests! 🗸

Correct

```
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 %)

```
1
     s=input()
 2 c=0 for i in s:
 4 ▼
          if i.isalpha():
 5
               C=C+1
 6 print(c) 7 a=0
 8 v for i in s:
 9 🔻
          if i.isdigit():
10
               a=a+1
11
    print(a)
12 x=c+a
13 y=len(s)-x
14 print(y)
```

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

Passed all tests! 🗸

Correct

Question **9**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

#### For example:

Input	Result
arvijayakumar@rajalakshmi.edu.in	edu.in rajalakshmi arvijayakumar

Answer: (penalty regime: 0 %)

```
1  | s=input()
2  | s1=s.split('@')
3  | s2=s1[1].split('.',1)
4  | print(s2[1])
5  | print(s2[0])
6  | print(s1[0])
```

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

Passed all tests! 🗸

Correct

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

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

first

second

first

third

second

then your program should display:

first

second

third

# Answer: (penalty regime: 0 %)

```
1
    ws=set()
 2
    order=[]
 3 v try:
 4 •
        while True:
 5
             w=input()
             if not w:
 6
 7
                 break
 8
             if w not in ws:
 9
                 ws.add(w)
10
                 order.append(w)
11 •
    except EOFError:
12
        pass
13 🔻
    for w in order:
14
        print(w)
```

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

■ Week5\_MCQ

Jump to...

List ▶

# Dashboard / My courses / PSPP/PUP / Experiments based on Lists and its operations. / Week6\_MCQ

Started on	Thursday, 30 May 2024, 1:16 PM
State	Finished
Completed on	Thursday, 30 May 2024, 1:36 PM
Time taken	20 mins
Grade	<b>10.00</b> out of 15.00 ( <b>66.67</b> %)
Question <b>1</b>	
Correct	
Mark 1.00 out of 1.00	
Write the output	of the following:
<pre>L = ['Amit', 'an print(max(L))</pre>	ita', 'Sumant', 'Zaid']
p	
Answer: anita	<b>✓</b>
\A/ *!!	
	of the following:
<pre>L = ['Amit', 'an print(max(L))</pre>	ita', 'Sumant', 'Zaid']
-	
The correct answe	r is: anita
Question <b>2</b>	
Correct	
Mark 1.00 out of 1.00	
Write the output	of the following:
L = "123456"	
L = <u>list</u> (L)	
print(type(L[0]))	
Answer: <class 's<="" th=""><th>str'&gt;</th></class>	str'>
/113We1.   Class !	<b>Y</b>
The correct answe	r is: <class 'str'=""></class>

www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=18516&cmid=102

·	
Question 3	
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 elements
b. hi we are the ✓
c. hi we are
d. hi we are the elements in a list
```

Your answer is correct.

The correct answer is: hi we are the

Question **4** 

Correct

Mark 1.00 out of 1.00

Which of the following is a standard Python library function and not an exclusively <u>list</u> function?

- a. len()
- b. append()
- oc. pop()
- d. remove()

Your answer is correct.

The correct answer is: len()

```
Week6_MCQ: Attempt review | REC-PS
Question 5
Incorrect
Mark 0.00 out of 1.00
 Write the output of the following:
 D = [1,2,3]
 D1 = D
 D.append(4)
 print(D1)
           [1,2,3,4]
 Answer:
 The correct answer is: [1, 2, 3, 4]
Question 6
Incorrect
Mark 0.00 out of 1.00
 L=["Amit","Sumit","Naina"]
 L1=["Sunil"]
 print(L + L1)
  a. ['Amit', 'Sumit', 'Naina', 'Sunil']
  b. ['Amit', 'Sumit', 'Naina', ['Sunil']] ×
  oc. List can not concatenate
 Your answer is incorrect.
 The correct answer is:
 ['Amit', 'Sumit', 'Naina', 'Sunil']
```

Question <b>7</b> Correct
Mark 1.00 out of 1.00
Find the output?
list1 = [1, 2, 3, 4,1,2,3]
list1.reverse()
print(list1)
○ b. [1, 2, 3, 4, 1, 2, 3]
o. [4, 3, 3, 2, 2, 1, 1]
od. [1, 1, 2, 2, 3, 3, 4]
Your answer is correct.
The correct answer is: [3, 2, 1, 4, 3, 2, 1]
0
Question 8 Incorrect
Mark 0.00 out of 1.00
L=[0.5 * x for x in range(4)]
print(L)
Answer: [0.0,0.5,1.0,1.5]
The correct answer is: [0.0, 0.5, 1.0, 1.5]
Question <b>9</b> Correct
Mark 1.00 out of 1.00
L=['Amit','Anita','Zee','Longest Word']
print(max(L))
Answer: Zee
The connect on average 7.5
The correct answer is: Zee

/06/2024, 16:04	Week6_MCQ: Attempt review   REC-PS
Question <b>10</b> Correct  Mark 1.00 out of 1.00	weeko_MCQ: Attempt review   REC-PS
Choose a correct representation of <u>list</u>	
<ul> <li>a. {10,20,30,'REC'}</li> <li>b. [10,20,30,'REC'] ✓</li> <li>c. (10,20,30,'REC')</li> <li>d. 10,20,30,REC</li> </ul>	
Your answer is correct.  The correct answer is: [10,20,30,'REC']	
Question 11 Correct Mark 1.00 out of 1.00	
Find the output?  list1 = [1, 2, 3, 4,1,2,3]  print(list1.pop())  a. 1  b. 2	
O c. []	

Your answer is correct.

d. 3 ✓

The correct answer is:

5/2024, 16:04	Week6_MCQ: Attempt review   REC-PS
Question 12	
Incorrect	
Mark 0.00 out of 1.00	
Find the output?	
list1 = <u>list</u> ('REC_CSE_ECE')	
print(list1.index('_'))	
○ a4	
○ b. 4	
<ul> <li>d. AttributeError: '<u>list</u>' object has no attribute 'find'</li> </ul>	
Your answer is incorrect.	
The correct answer is:	
AttributeError: ' <u>list</u> ' object has no attribute 'find'	
Question 13	
Incorrect	
Mark 0.00 out of 1.00	
1. >>>list1 = [1, 3]	
2. >>>list2 = list1	
3. >>>list1[0] = 4	
4. >>>print(list2)	
Answer: [4,3]	×
1,101	

The correct answer is: [4, 3]

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Question 14	
Correct	
Mark 1.00 out of 1.00	
Find the Output?	
list1 = [1, 2, 3, 4,1,2,3,1]	
print(list1[5:20])	
a. [1, 2, 3, 1]	
ob. Error	
© c. [2, 3, 1] ✓	
od. [1, 2, 3, 4,1,2,3,1]	
Your answer is correct.	
The correct answer is:	
[2, 3, 1]	
Question <b>15</b>	
Correct	
Mark 1.00 out of 1.00	
To find the last element of <u>list</u> namely 'list1' in Python,	_ will be used.
b. list1[pos]	
c. list1[:-1]	
o. list1[0]	
G. HSTI[O]	
Your answer is correct.	
The correct answer is: list1[-1]	
<b>▲</b> List	
Jump to	

Week6\_Coding ►

# <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	Thursday, 30 May 2024, 2:10 PM
State	Finished
Completed on	Saturday, 1 June 2024, 2:10 PM
Time taken	2 days
Marks	9.00/10.00
Grade	<b>90.00</b> out of 100.00

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

```
Write a Python program to Zip two given lists of lists.
Input:
m:row size
n: column size
list1 and <u>list</u> 2: Two lists
Output
Zipped List: List which combined both list1 and list2
Sample test case
Sample input
2
2
1
3
5
7
2
4
```

Sample Output

6 8

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

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

```
m=int(input())
   n=int(input())
 3
   a=[]
 4
   b=[]
 5
   m1=m
 6 v for i in range(m):
 7
        r=[]
 8 ,
        for j in range(n):
 9
            r.append(int(input()))
10 🔻
        if (m==m1):
11
            a.append(r)
12
        else:
13
            a=a+r
14 v for i in range(m):
15
        r=[]
16
        for i in range(n):
17
            r.append(int(input()))
        if m==m1:
18 🔻
19
            b.append(r)
20
        else:
21
            b=b+r
22 √ for i in range(n):
23
        a[i].extend(b[i])
24
   print(list(a))
```

	Input	Expected Got	
~	2	[[1, 2, 5, 6], [3, 4, 7, 8]] [[1, 2, 5, 6], [3, 4, 7, 8]]	<u> </u>
	2		
	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		

Passed all tests! 🗸

Correct

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

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

# Sample Test Cases

Test Case 1

Input

7

23

45

23

56

45 23

40

### Output

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

# Answer: (penalty regime: 0 %)

```
n=int(input())
   a=[]
 3 for i in range(n):
 4
        t=int(input())
5
        a.append(t)
 6
   u=[]
7 v for i in a:
        if i not in u:
 8 •
           u.append(i)
10 v for i in u:
        print (i,"occurs",a.count(i),"times")
11
```

	Input	Expected Got	
~	7	23 occurs 3 times 23 occurs 3 times •	<b>/</b>
	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 **3**Not answered

Mark 0.00 out of 1.00

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

# Input Format

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

### Output format

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

# Example

Input

1

3

1

3

5

4

Output:

1

Input

1

3

1

5

99

Output

0

# For example:

Input	Result
1 3	1
3	
5 4	
1 3 1 3 5 99	Ø

Answer: (penalty regime: 0 %)

1

19/06/2024, 16:04 Week6_Coding: Attempt review   REC-PS	

Question **4**Correct

Mark 1.00 out of 1.00

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

### **Example**

n = 20

p = 3

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

### **Constraints**

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

 $1 \le p \le 10^9$ 

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

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

### Sample Case 0

# Sample Input 0

10

3

### Sample Output 0

5

### **Explanation 0**

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

### Sample Case 1

# Sample Input 1

10

5

### Sample Output 1

0

### **Explanation 1**

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

# Sample Case 2

# Sample Input 2

1

1

# Sample Output 2

1

### **Explanation 2**

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

# For example:

Input	Result
10 3	5
10 5	0

Input	Result		
1	1		
1			

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	10 3	5	5	<b>~</b>
~	10 5	0	0	~
~	1	1	1	~

Passed all tests! 🗸

Correct

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

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

# Input:

n: Number of elements

List1: List of values

Output

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

Sample Test Case

Input

7

1

2

3

0

4

5

6

Output

True

Answer: (penalty regime: 0 %)

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

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

Passed all tests! 🗸

Correct

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

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

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

6 5 7

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

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

Sample Test Cases

Test Case 1

Input

4

5

6 5 7

5

Output

5 is present at location 1.

5 is present at location 3.

5 is present 2 times in the array.

Test Case 2

Input

5 67

80

45

97

100 50

Output

50 is not present in the array.

Answer: (penalty regime: 0 %)

```
n=int(input())
   a=[]
 3 v for i in range(n):
        t=int(input())
 4
        a.append(t)
 6
    s=int(input())
 7 🔻
    for i in range(0,len(a)):
        if a[i]==s:
 8
            print(s,'is present at location',i+1,end='.''\n')
10 v if s in a:
        print(s,'is present',a.count(s),'times in the array.')
11
12 v else:
        print(s,'is not present in the array.')
```

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

Passed all tests! 🗸

Correct

Question 7

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

- $\cdot$  3  $\leq$  n  $\leq$  10<sup>5</sup>
- ·  $1 \le arr[i] \le 2 \times 10^4$ , where  $0 \le i < n$
- · It is guaranteed that a solution always exists.

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

Each of the next n lines contains an integer, arr[i], where  $0 \le i < n$ .

Sample Case 0

Sample Input 0

4

1

2

3

Sample Output 0

2

### Explanation 0

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

# Sample Case 1

# Sample Input 1

3

1

2

1

# Sample Output 1

1

# Explanation 1

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

# For example:

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

Answer: (penalty regime: 0 %)

```
1    | n=int(input())
2    | a=[]
3    | for i in range(n):
4    | a.append(int(input()))
5    | total=sum(a)
6    | left=0
7    | for i in range(n):
8    | total==a[i]
9    | if left==total:
10    | print(i)
11    | break
12    | left+=a[i]
```

	Input	Expected	Got	
~	4	2	2	~
	1			
	2			
	3			
	3			
~	3	1	1	<b>~</b>
	1			
	2			
	1			

Passed all tests! 🗸

Correct

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

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

Input Format:

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

Second line take n Integers which is inputs of array.

**Output Format:** 

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

Example Input:

5

1

2

2

3

4

Output:

1234

Example Input:

6

1

1

2

3

3

Output:

123

# For example:

Input	R	es	ul	t
5	1	2	3	4
1				
2				
2				
3				
4				
6	1	2	2	
1	1	2	2	
1				
2				
2				
3				
3				

Answer: (penalty regime: 0 %)

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

11

Question 9 Correct Mark 1.00 out of 1.00

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

### Sample Test Cases

### Test Case 1

Input

1

8

9 10

11 2

# Output

ITEM to be inserted:2

After insertion array is:

23456789

10 11

# Test Case 2

### Input

11

22 33

55

66

77 88

99

110 120

44

# Output

ITEM to be inserted:44

After insertion array is:

11

22 33

44

55

66 77

88

99 110

120

Answer: (penalty regime: 0 %)

```
for i in range(10):
    t=int(input())
4    a.append(t)
5    n=int(input())
6    a.append(n)
7    a.sort()
8    print('ITEM to be inserted:',n,sep='')
9    print('After insertion array is:')
10    for i in a:
        print(i)
```

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

2

6

9

2

4

5

10

# Sample Output 1

1 2 3 4 5 6 9 10

# Answer: (penalty regime: 0 %)

```
a=[]
 2
   n=int(input())
 3 v for i in range(n):
 4
        temp=int(input())
 5
        if temp not in a:
 6
            a.append(temp)
 7
    b=[]
 8
    n1=int(input())
 9 🔻
    for i in range(n1):
10
        temp=int(input())
11 •
        if temp not in b:
12
            b.append(temp)
13
   c=a+b
14
   c.sort()
15
   d=[]
16 v for i in c:
17 🔻
        if c.count(i)==1:
18
            d.append(i)
19 🔻
        if c.count(i)>1:
20
            if i not in d:
21
                d.append(i)
    for i in d:
22 🔻
23
      print(i,end=" ")
24
25
```

	Input	E	ф	ес	te	d									G	ot												
~	5	1	2	3	4	5	6	9	10						1	2	3	4	5	6	9	10						~
	1																											
	2																											
	6																											
	9																											
	4																											
	2																											
	4																											
	5																											
	10																											
~	7	1	3	4	5	7	8	10	11	12	13	22	30	35	1	3	4	5	7	8	10	11	12	13	22	30	35	~
	4																											
	7																											
	8																											
	10																											
	12 30																											
	35																											
	9																											
	1																											
	3																											
	4																											
	5																											
	7																											
	8																											
	11																											
	13																											
	22																											

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

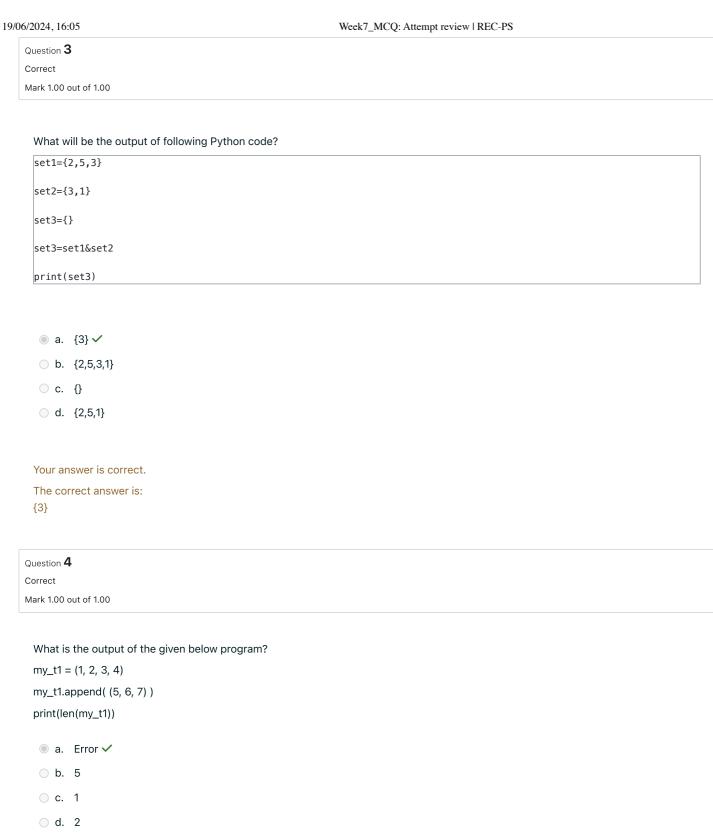
# ■ Week6\_MCQ

Jump to...

Tuples ▶

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

Started on	Monday, 10 June 2024, 7:43 PM
State	Finished
	Monday, 10 June 2024, 8:13 PM
Time taken	
Grade	<b>3.00</b> out of 15.00 ( <b>20</b> %)
Question <b>1</b>	
Correct	
Mark 1.00 out of 1.00	
What will be the ou	tput of below Python code?
	programming","Computer")
print(tupl[-3:0]	
a. (Computer	
ob. Error	
c. Computer	
d. () ✓	
Your answer is cor	
The correct answe ()	ris:
()	
Question 2	
Not answered	
Marked out of 1.00	
Choose the correct	t option.
a. In Python,	a tuple can contain either string or integer but not both at a time.
<ul><li>b. In Python,</li></ul>	a tuple can contain both integers and <u>strings</u> as its elements.
c. In Python,	a tuple can contain only integers as its elements.
d. In Python,	a tuple can contain only <u>strings</u> as its elements.
G. HERYTHOH,	a taple suit softain only <u>strings</u> as its cloments.
Your answer is inco	prrect.
The correct answe	
in Python, a tunle o	an contain both integers and strings as its elements



Your answer is correct.

The correct answer is:

Error

5/2024, 16:05	Week7_MCQ: Attempt review   REC-PS
Question <b>5</b>	
Incorrect	
Mark 0.00 out of 1.00	
What will set1 set2 do?	
If set1={"a","b",3}	
set2={3,7}	
a. A new <u>set</u> will be created	with the elements of both set1 and set2
○ b. Elements of set1 will get a	ppended to set2
oc. A new set will be created	with the unique elements of set1 and set2.
<ul><li>d. Elements of set2 will get a</li></ul>	ppended to set1 ×
Your answer is incorrect.	
The correct answer is:	
A new <u>set</u> will be created with the	elements of both set1 and set2
Question <b>6</b>	
Not answered  Marked out of 1.00	
ivialized out of 1.00	
If a=(15,16,17,18,19,25), then a[1:-1	] will be
Note : a=(15,16,17,18,19,25)	
print((a[1:-1]))	
pt((a[1]))	
a. (25,19,18,17)	
Ob. Error	
c. (16,17,18)	
od. (16,17,18,19)	
Your answer is incorrect.	

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

06/2024, 16:05	Week7_MCQ: Attempt review   REC-PS
Question <b>7</b>	
Not answered	
Marked 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. Error	
○ b. (1,2,3,4,5,6)	
o. (1,2,3,3,2,1)	
Od. (1,2,3)(4,5,6)	
Your answer is incorrect.	
The correct answer is:	
(1,2,3,4,5,6)	
Question 8	
Incorrect	
Mark 0.00 out of 1.00	
Select which is true for Python tuple?	
<ul><li>a. A tuple is unordered X</li></ul>	
<ul> <li>b. We can change the tuple once created</li> </ul>	
o. None of these	
od. A tuple maintains the order of items	

Your answer is incorrect.

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

Question 9	
Not answered	
Marked out of 1.00	
Select all the correct options to remove "ECE" from the set.	
<pre>sampleSet = {"ECE", "R&amp;A", "MCT"}</pre>	
a. del.sampleSet("ECE")	
○ b. sampleSet.delete("ECE")	
c. remove.sampleSet("ECE")	
○ d. sampleSet.discard("ECE")	
Your answer is incorrect.	
The correct answer is:	
sampleSet.discard("ECE")	
Question 10	
Not answered	
Marked out of 1.00	
What will be printed when the following code executes?	
a = ("Python Programming")	
print type(a)	
	7
a. <class 'int'=""></class>	
○ b. <class 'str'=""></class>	
o. str	
○ d. <class 'tuple'=""></class>	
Your answer is incorrect.	
The correct answer is:	
<class 'str'=""></class>	

www.rajalakshmicolleges.org/moodle/mod/quiz/review.php? attempt = 25646&cmid = 106

Question 11

Not answered

Marked out of 1.00

What is the output of the given below program?

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

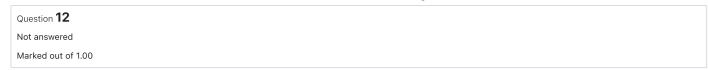
x = t[2:-1]

print(x)

- a. (58,47,36,25)
- o b. (3,14,25)
- o. (36, 25, 14)
- od. Error

Your answer is incorrect.

The correct answer is: (36, 25, 14)



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))
```

a. False

True

O b. False

False

O c. True

False

O d. True

True

Your answer is incorrect.

The correct answer is:

True

True



Not answered

Marked out of 1.00

What is printed when the following code is run?

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

Your answer is incorrect.

The correct answer is:

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

### Question 14

Not answered

Marked out of 1.00

Find the output of the given Python program?

- a. [2, 3, 9]
- b. (1, 4, 8)
- o. [1, 2, 4, 3, 8, 9]
- od. [1, 4, 8]

Your answer is incorrect.

The correct answer is:

[1, 4, 8]

/06/2024, 16:05	Week7_MCQ: Attempt review   REC-PS
Question 15	
Not answered	
Marked 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)	
○ a. Error	
o b. (55,78,64,25)	
o. c. (12)	
O d. 12	
Your answer is incorrect.	
The correct answer is:	
Error	

■ Set

Jump to...

Week7\_Coding ►

# <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	Monday, 10 June 2024, 6:45 PM
State	Finished
Completed on	Monday, 10 June 2024, 7:00 PM
Time taken	15 mins 41 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

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 %)

```
1 | s=input()
2 | print("Yes" if set(s).issubset({'0','1'}) else "No")
```

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

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 = "AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT"
Output: ["AAAAACCCCC","CCCCAAAAA"]
```

### Example 2:

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

# For example:

Input	Result
AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC

# Answer: (penalty regime: 0 %)

	Input	Expected	Got	
<b>~</b>	AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC CCCCCAAAAA		<b>~</b>
<b>~</b>	AAAAAAAAAA	АААААААА	АААААААА	~

# Passed all tests! 🗸

Correct

Question 3
Correct
Mark 1.00 out of 1.00

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

## Example 1:

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

Output: 2

## Example 2:

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

Output: 3

## For example:

Input	Result
1 3 4 4 2	4

## Answer: (penalty regime: 0 %)

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

Passed all tests! ✓

Correct

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

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

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

## Example 1:

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

## Output:

1

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

## For example:

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

## Answer: (penalty regime: 0 %)

```
s=input().strip()
 2
   d=input().strip()
 3
   f=0
 4
   s=list(s)
   d=list(d)
 5
 6
   a=[]
 7 v for i in s:
 8 •
        if i not in a:
 9
            a.append(i)
10 v for i in a :
11 🔻
        if i in d:
12
            f+=1
13 print(f)
```

	Input	Expected	Got	
~	hello world ad	1	1	<b>~</b>
~	Welcome to REC e	1	1	<b>~</b>
~	Faculty Upskilling in Python Programming ak	2	2	<b>~</b>

## Passed all tests! <

Correct

```
Question 5
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())
 3
   pair_counts={}
 4 ▼
    for i in range(len(t)):
 5
        for j in range(i+1,len(t)):
 6
            pair_sum=t[i]+t[j]
 7 🔻
            if pair_sum==k:
                pair\_counts[(min(t[i],t[j]),max(t[i],t[j]))]=pair\_counts.get
 8
   distinct_pairs_count=len(pair_counts)
10 print(distinct_pairs_count)
```

	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	~

Passed all tests! <

Correct

■ Week7\_MCQ

Jump to...

Dictionary ►

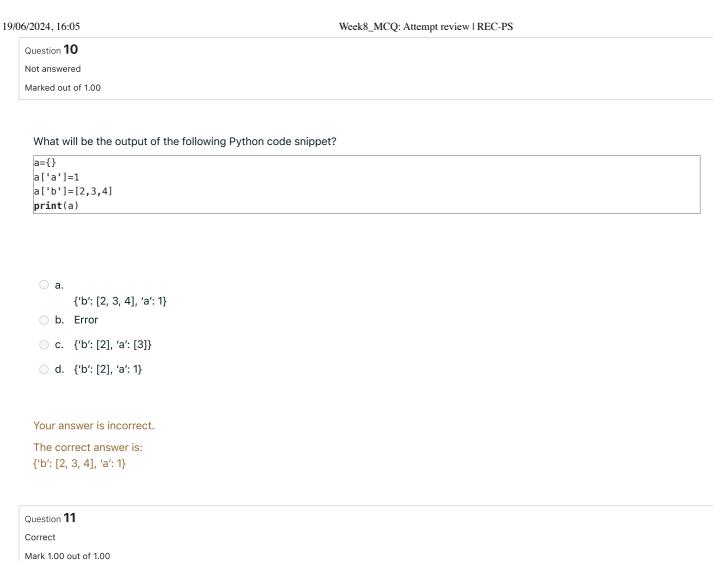
# <u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Experiments based on Dictionary and its operations.</u> / <u>Week8\_MCQ</u>

	Monday, 10 June 2024, 7:33 PM	
	Finished	
	Monday, 10 June 2024, 7:43 PM 9 mins 52 secs	
	12.00 out of 15.00 (80%)	
Grade	12.00 out of 15.00 (80%)	
Question <b>1</b>		
Correct		
Mark 1.00 out of 1.00		
Keys in <u>dictionary</u> a		
noyo iii <u>arottoriar y</u> c	······································	
<ul><li>a. Immutable</li></ul>	<b>✓</b>	
<ul><li>b. integers</li></ul>		
c. antique		
od. Mutable		
The correct answe	r is: Immutable	
Question <b>2</b>		
Not answered		
Marked out of 1.00		
What does the follo	owing code print?	
names = {'Janice':	5, 'Emily': 3, 'John': 7, 'Eleanor': 2}	
list_o_names = []		
names['Emily'] +=	10	
names['Erik'] = 22		
for name in names		
<pre>if names[name] list_o_names.a</pre>		
print(list_o_names		
oa. ['Janice', 'E	Emily', 'John', 'Eleanor']	
ob. ['Emily', 'Jo	phn', 'Erik']	
o. ['Janice', 'J	ohn', 'Erik']	
od. ['Janice', 'E	Emily', 'John']	
V		
Your answer is inco		
The correct answe		
['Emily', 'John', 'Eril		

Correct
Mark 1.00 out of 1.00
Dictionaries are flexible in nature, means elements can be added or removed from it.
Dictionalies are nexible in nature, means elements can be added or removed from it.
○ a. False
<ul><li>b. True ✓</li></ul>
S. Hac v
The correct answer is: True
Question 4
Correct
Mark 1.00 out of 1.00
clear() method is used to delete the <u>dictionary</u> .
clear () The thou is used to delete the <u>dictionary</u> .
<ul><li>b. True</li></ul>
The correct answer is: False
Question 5
4400000
Correct
Correct
Correct Mark 1.00 out of 1.00
Correct
Correct Mark 1.00 out of 1.00
Correct  Mark 1.00 out of 1.00  pop  function delete and the element of dictionary.
Correct  Mark 1.00 out of 1.00  pop function delete and the element of dictionary.  a. add b. not return
Correct  Mark 1.00 out of 1.00  pope function delete and the element of dictionary.  a. add b. not return c. return ✓
Correct  Mark 1.00 out of 1.00  pope function delete and the element of dictionary.  a. add b. not return
Correct  Mark 1.00 out of 1.00  pop function delete and the element of dictionary.  a. add b. not return c. return  d. display
Correct  Mark 1.00 out of 1.00  pope function delete and the element of dictionary.  a. add b. not return c. return ✓
Correct  Mark 1.00 out of 1.00  pop function delete and the element of dictionary.  a. add b. not return c. return  d. display
Correct  Mark 1.00 out of 1.00  pope function delete and the element of dictionary.  a. add b. not return c. return d. d. display  The correct answer is: return
Correct Mark 1.00 out of 1.00  pope function delete and the element of dictionary.  a. add b. not return c. return  d. display  The correct answer is: return
Correct  Mark 1.00 out of 1.00   pop@ function delete and the element of dictionary.  a. add b. not return c. return  d. display  The correct answer is: return
Correct Mark 1.00 out of 1.00  pope function delete and the element of dictionary.  a. add b. not return c. return  d. display  The correct answer is: return
Correct  Mark 1.00 out of 1.00   pop@ function delete and the element of dictionary.  a. add b. not return c. return  d. display  The correct answer is: return
Correct Mark 1.00 out of 1.00  pop function delete and the element of dictionary.  a. add b. not return c. return ✓ d. display  The correct answer is: return  Question 6 Correct Mark 1.00 out of 1.00
Correct  Mark 1.00 out of 1.00   pop@ function delete and the element of dictionary.  a. add b. not return c. return  d. display  The correct answer is: return
Correct Mark 1.00 out of 1.00  pop function delete and the element of dictionary.  a. add b. not return c. return ✓ d. display  The correct answer is: return  Question 6 Correct Mark 1.00 out of 1.00
Correct  Mark 1.00 out of 1.00  pope function delete and the element of dictionary.  a. add b. not return c. return  d. display  The correct answer is: return  Question 6  Correct  Mark 1.00 out of 1.00  Which of the following are immutable data type? A. String B. Tuple C. List D. Dictionary.
Correct Mark 1.00 out of 1.00  pop function delete and the element of dictionary.  a. add b. not return c. return  d. display  The correct answer is: return  Question 6  Correct Mark 1.00 out of 1.00  Which of the following are immutable data type? A. String B. Tuple C. List D. Dictionary  a. b and d
Correct Mark 1.00 out of 1.00  pop     function delete and the element of dictionary.      a. add     b. not return     c. return ✓     d. display  The correct answer is: return  Question 6  Correct Mark 1.00 out of 1.00  Which of the following are immutable data type? A. String B. Tuple C. List D. Dictionary.      a. b and d     b. a and c

The correct answer is: a and b

Question 7
Correct
Mark 1.00 out of 1.00
To obtain the number of entries in <u>dictionary</u> which command is used?
○ b. size(d)
o. d.len()
od. d.size()
Your answer is correct.
The correct answer is:
len(d)
Question 8
Correct
Mark 1.00 out of 1.00
Which of the following function create a <u>dictionary</u> from a sequence of key-value pairs
○ a. dictionary
c. converte
○ d. create
The correct answer is: dict
Question 9
Correct
Mark 1.00 out of 1.00
Which function helps to merge <u>dictionary</u> 'D1' and 'D2'?
○ a. append⊜
○ b. get€
○ c. merge€
■ d. update     ■ ✓
The correct answer is: update



Which function/statement delete all the items of the dictionary?

- a. pop( )
- b. clear()
- c. delete()
- od. del

The correct answer is: clear()

06/2024, 16:05	Week8_MCQ: Attempt review   REC-PS
Question 12	
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)	
print (a)	
a. {1: 10, 2: 20, 3: 30, 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)]	
d. {1:10, 2: 20, 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 13	
Incorrect	
Mark 0.00 out of 1.00	
E-lleving statement as the form of DO level () He	DA is a distinguish
Following statement return values in the form of: D1.keys() #	DTIS a <u>dictionary</u>
a. string	
○ b. <u>list</u>	
c. tuple	
<del> </del>	
The correct answer is: <u>list</u>	
Question 14	
Correct	
Mark 1.00 out of 1.00	
datatype fall under mapping.	
○ a. Tuple	
Ob. List	
c. String	
<ul><li>■ d. <u>Dictionary</u> ✓</li></ul>	

The correct answer is: <u>Dictionary</u>

Qu	lestion 15
Со	prrect
Ма	ark 1.00 out of 1.00

Choose the correct statement, in reference to the following code: D1.update(D2) #D1 and D2 are dictionaries

- a. None of the mentioned
- b. It will merge all the elements of dictionary 'D1' in dictionary 'D2'.
- od. It will create a new dictionary.

The correct answer is: It will merge all the elements of <u>dictionary</u> 'D2' in <u>dictionary</u> 'D1'.

■ Dictionary

Jump to...

Week8\_Coding ▶

# <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	Monday, 10 June 2024, 7:01 PM
State	Finished
Completed on	Monday, 10 June 2024, 11:59 PM
Time taken	4 hours 57 mins
Marks	5.00/5.00
Grade	<b>100.00</b> out of 100.00

```
Question 1
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 James 67 89 56 Lalith 89 45 45 Ram 89 89 89 Sita 70 70 70	Ram James Ram Lalith Lalith

Answer: (penalty regime: 0 %)

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

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

		Input	Expected	Got	
~		4 James 67 89 56 Lalith 89 45 45 Ram 89 89 89 Sita 70 70 70	Ram James Ram Lalith Lalith	Ram James Ram Lalith Lalith	~
~	•	3 Raja 95 67 90 Aarav 89 90 90 Shadhana 95 95 91	Shadhana Shadhana Aarav Raja Raja	Shadhana Shadhana Aarav Raja Raja	<b>~</b>

Passed all tests! <

Correct

Marks for this submission: 1.00/1.00.

11

```
Question 2

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	t
this	apple	is	sweet	sweet	sour
this	apple	is	sour		

## Answer: (penalty regime: 0 %)

```
a=input()
   b=input()
 3
    a=a.split()
 4
   b=b.split()
 5
   x=[]
 6 v for i in a:
 7 •
        if a not in b:
 8
            x.append(i)
9 for i in b:
10 🔻
        if b not in a:
11
            x.append(i)
12 v for i in x:
13
        c=x.count(i)
14 •
        if(c==1):
            print(i,end=" ")
15
```

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

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

Passed all tests! 🗸

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

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

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

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

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

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

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

Sample Input:

2

Gfg 6 7 4

Best 7 6 5

Sample Output

Gfg 17

Best 18

## For example:

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

Answer: (penalty regime: 0 %)

```
n = int(input().strip())
 2
 3
    test_cases = {}
 4
    for _ in range(n):
 5 🔻
 6
        key, *values = input().strip().split()
 7
 8
        values = list(map(int, values))
10
        test_cases[key] = sum(values)
11
    sorted_test_cases = dict(sorted(test_cases.items(), key=lambda item: item[1]))
12
13
14 for key, value in sorted_test_cases.items():
15
        print(key, value)
```

	Input	Expected	Got	
~	2 Gfg 6 7 4 Best 7 6 5	Gfg 17 Best 18	Gfg 17 Best 18	<b>~</b>

	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 4
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

Answer: (penalty regime: 0 %)

```
10
             vote\_count[candidate] = 1
11
    max_votes = 0
winner = ""
12
13
14
15 🕶
    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 John Johny Jamie Jamie Johny Jack Johny Johny Jackie	Johny	Johny	~
<b>~</b>	6 Ida Ida Ida Kiruba Kiruba Kiruba	Ida	Ida	<b>~</b>

Passed all tests! 🗸

Correct

```
Question 5
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™ 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<sup>™</sup> board includes some squares that multiply the value of a letter or the value of an entire word. We will ignore these squares in this exercise.

Sample Input

REC

Sample Output

REC is worth 5 points.

## For example:

Input	Result
REC	REC is worth 5 points.

## Answer: (penalty regime: 0 %)

```
1 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,
 2
 3
 4
          'F': 4, 'H': 4,
 5
                             'V': 4, 'W': 4, 'Y': 4,
          'K': 5,
 6
          'J': 8, 'X': 8, 'Q': 10, 'Z': 10
 7
 8
 9
    }
10
    word=input().strip().upper()
11
     score=0
12 v for letter in word:
13
          score+=scrabble_points.get(letter,0)
    print(f"{word} is worth {score} points.")
14
```

	Input	Expected	Got	
<b>~</b>	GOD	GOD is worth 5 points.	GOD is worth 5 points.	<b>~</b>

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

Passed all tests! 🗸

Correct

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</u>: <u>Built-in functions, User-defined functions, Recursive functions</u> / <u>Week9\_MCQ</u>

Star	ted on	Monday, 10 June 2024, 7:22 PM
	State	Finished
		Monday, 10 June 2024, 7:31 PM
		8 mins 30 secs
	Grade	<b>9.00</b> out of 15.00 ( <b>60</b> %)
Question 1		
Correct		
Mark 1.00 out of	f 1.00	
<u>Functions</u> v	vhich do	not return any value is called
a. def	ault fund	ction
b. voi		
o. nul	l functio	n
od. zer	o functio	on
The correct	t answer	is: void function
Question <b>2</b>		
Correct		
Mark 1.00 out of	f 1 00	
man noo oar o		
What will b	e the o	utput of the following Python code?
def sayHel	lo():	
print('He	ello Wor	ld!')
sayHello()		
sayHello()		
a. No	ne of the	e mentioned
○ b. 'He	ello Worl	
	ello Worl	
⊚ c. He	llo Morlo	
	llo World	
od. Hel		
116		
Your answe	r is corre	ect.
The correct		
Hello World		

Hello World!

5/2024, 16:06	Week9_MCQ: Attempt review   REC-PS
Question 3	
Not answered	
Marked out of 1.00	
Which of the following function definition header is wrong?	
a. def sum(n1, n2, n = 3):	
$\bigcirc$ b. def scan(p1, p2 = 4, p3 = 5):	
c. def div(p1=4, p2, p3):	
d. def mul(p1, n1, m1):	
The correct answer is: def div(p1=4, p2, p3):	
Question 4	
Not answered	
Marked out of 1.00	
What is the output of the following function call?	
def fun1(num):	
return num + 25	
fun1(5)	
print(num)	
o a. num	
○ b. NameError	
oc. 25	
O d. 5	
Your answer is incorrect.	
The correct answer is:	
NameError	

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

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

```
def maximum(x, y):
    if x > y:
        return x
    elif x == y:
        return 'The numbers are equal'
    else:
        return y
print(maximum(2, 3))
```

- a. None of the mentioned
- b. The numbers are equal
- ⊚ c. 3 ✓
- od. 2

Your answer is correct.

The correct answer is:

3

Question 6

Correct

Mark 1.00 out of 1.00

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

- a. None of the mentioned
- ob. -45
- c. 45 ✓
- od. 45.0

The correct answer is: 45

6/2024, 16:	06 Week9_MCQ: Attempt review   REC-PS
Question <b>7</b>	
Correct	
Mark 1.00 d	put of 1.00
Functio	n defined to achieve some task as per the programmer's requirement is called a
Оа	All of the mentioned
	library function
	user defined function ✓
The cor	rrect answer is: user defined function
THE COI	Tect allower is, user defined function
Question <b>8</b>	<u> </u>
Correct	
Mark 1.00 d	out of 1.00
The pro	ocess of dividing a computer program into separate independent blocks of code with specific functionalities is known as
	<del></del>
<ul><li>○ a.</li></ul>	More Programming
<ul><li>b.</li></ul>	Step Programming
c.	Programming
<ul><li>d.</li></ul>	Modular Programming ✓
The cor	rrect answer is: Modular Programming
THE COI	Tect answer is. Modular Programming
Question 9	
Incorrect	
Mark 0.00	out of 1.00
Which o	of the following is not the scope of variable?
<ul><li>a.</li></ul>	Local X
<ul><li>b.</li></ul>	Global
O c.	None of the mentioned
<ul><li>d.</li></ul>	Outside
The cor	rrect answer is: Outside

06/2024, 16:06	Week9_MCQ: Attempt review   REC-PS
Question 10	
Correct	
Mark 1.00 out of 1.00	
Choose the incorrect statement.	
$lacktriangle$ a. None of the mentioned $\checkmark$	
b. print(pow(2.3, 3.2))	
c. print(pow(2, 3))	
d. print(pow(2, 3, 2))	
The correct answer is: None of the mentioned	
Question 11	
Not answered	
Marked out of 1.00	
What will be the output of the following Python code?	
def test(i,j): if(i==0):	

```
return j
  else:
   return test(i-1,i+j)
print(test(4,7))
```

- oa. 7
- b. Infinite loop
- oc. 13
- od. 17

Your answer is incorrect.

The correct answer is:

17

/06/2024, 16:06	Week9_MCQ: Attempt review   REC-PS
Question 12	
Correct	
Mark 1.00 out of 1.00	
Which keyword is used for defining a function?	
⊚ a. def ✓	
O b. Fun	
oc. Define	
Od. Function	
Your answer is correct.	
The correct answer is:	
def	
Question 13	
Not answered	
Marked out of 1.00	
Choose the correct statement  a. We can create function with argument(s) and no role.  b. We can create function with no argument and with c. All of the mentioned  d. We can create function with no argument and no role.	n return value(s)
The correct answer is: All of the mentioned	
Question 14	
Not answered	
Marked out of 1.00	
Which of the following function headers is correct?	
$\bigcirc$ a. def fun(a = 2, b = 3, c)	
○ b. def fun(a, b, c = 3, d)	
$\circ$ c. def fun(a = 2, b, c = 3)	
$\bigcirc$ d. def fun(a, b = 2, c = 3)	

Your answer is incorrect.

The correct answer is: def fun(a, b = 2, c = 3)

Question 15		
Correct		
Mark 1.00 out of 1.00		

Write the output of : print(max([1, 2, 3, 4], [4, 5, 6], [7]))

- a. [7] 
  ✓
- ob. [4, 5, 6]
- o. 7
- od. [1, 2, 3, 4]

The correct answer is: [7]

**◄** Functions

Jump to...

Week9\_Coding ▶

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

Started on	Monday, 10 June 2024, 7:05 PM
State	Finished
Completed on	Monday, 10 June 2024, 11:59 PM
Time taken	4 hours 53 mins
Marks	4.00/5.00
Grade	<b>80.00</b> out of 100.00

Question 1

Not answered

Mark 0.00 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 v def differenceSum(n):
```

Question 2
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
         C=<mark>0</mark>
 3
         c+=n//4
 4
5
         n%=4
         c+=n//3
 6
7
         n%=3
         c+=n//2
 8
         n%=2
 9
          c+=n//1
10
          return c
```

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

Passed all tests! 🗸

Correct

Question **3**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):
    c=len(str(n))
    r=(n**2)%(10**c)
    if(r==n):
        return 'Automorphic'
    else:
        return 'Not Automorphic'
```

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

Passed all tests! 🗸

Correct

Question 4

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
 3 ▼
        for i in range(1,n):
 4
             if (n%i==0):
 5
                 d+=i
 6 •
        if (d>n):
 7
             return 'Yes'
 8
        else:
             return 'No'
 9
10
11
```

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

Passed all tests! 🗸

Correct

Question **5**Correct

Mark 1.00 out of 1.00

An e-commerce company plans to give their customers a special discount for Christmas.

They are planning to offer a flat discount. The discount value is calculated as the sum of all

the prime digits in the total bill amount.

Write an algorithm to find the discount value for the given total bill amount.

Constraints

1 <= orderValue< 10e100000

Input

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

Output

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

**Example Input** 

578

Output

12

## For example:

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

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 

def is_prime_digit(digit):
                                  '3', '5', '7'}
    return digit in {'2', def christmasDiscount(n):
 3 ▼
 4
         orderValue_str=str(n)
         discount = 0
 5
         for digit in orderValue_str:
 6
 7
            if is_prime_digit(digit):
 8
                  discount += int(digit)
9
         return discount
10
11
```

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

Passed all tests! ✓

Correct

■ Week9\_MCQ

Jump to...

Searching ►

# Dashboard / My courses / PSPP/PUP / Searching techniques: Linear and Binary / Week10\_MCQ

Started on	Monday, 10 June 2024, 7:14 PM			
State	Finished			
Completed on	Monday, 10 June 2024, 7:20 PM			
Time taken	6 mins 11 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				
The average case occurs in the linear search algorithm				
a. Item is the last element in the array or item is not there at all				
ob. When the	item is the last element in the array			
o. When the	item is not the array at all			
od. When the	item is somewhere in the middle of the array 🗸			
Your answer is cor				
The correct answe				
when the item is s	omewhere in the middle of the array			
Question <b>2</b>				
Correct				
Mark 1.00 out of 1.00				
Algorithm design to	echnique used in merge sort algorithm is			
0				
<ul><li>a. Divide and</li></ul>	conquer ✓			
<ul><li>b. Backtracki</li></ul>	ng			
o. Dynamic p	rogramming			
d. Greedy me	ethod			
Your answer is cor	rect.			
The correct answe				
Divide and conque				

www.rajalakshmicolleges.org/moodle/mod/quiz/review.php? attempt = 25620&cmid = 115

5/2024, 16	4, 16:10 Week10_MCQ: Atten	npt review   REC-PS
Question 3	ion <b>3</b>	
Correct	ct	
Mark 1.00	1.00 out of 1.00	
In	checks the elements of a <u>list</u> , one at a time, without skipping any	element.
○ a.	a. Hash search	
O b.	b. Both (1) & (3)	
C.	c. Binary search	
<ul><li>d.</li></ul>	d. Linear search 🗸	
Your ar	ur answer is correct.	
	e correct answer is:	
Linear	ear search	
Question 4	ion <b>4</b>	
Correct	ct	
Mark 1.00	1.00 out of 1.00	
	o-way merge sort algorithm is used to sort the following elements in ascending	ng order.
	0,470,150,80,90,40,400,300,120,70 lat is the order of these elements after second pass of the merge sort algorith	nm?
vviiatis	acts the order of these elements after second pass of the merge soft algorith	
○ a.	a. 40,80,90,150,200,300,400,470,70,120	
O b.	b. 40,70,80,90,120,150,200,300,400,470	
C.	c. 80,150,200,470,40,90,300,400,70,120 ✓	
O d.	d. 200,470,80,150,40,90,300,400,70,120	
Your ar	ur answer is correct.	

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

6/2024, 16:	10 Week10_MCQ: Attempt review   REC-PS
Question <b>5</b>	
Correct	
Mark 1.00 d	out of 1.00
Which o	of the following is not an in-place <u>sorting</u> algorithm?
○ a.	Heap sort
O b.	Quick sort
○ c.	Selection sort
<ul><li>d.</li></ul>	Merge sort ✓
Your an	swer is correct.
The cor	rrect answer is:
Merge	sort
Question <b>6</b>	
Correct	
Mark 1.00 d	out of 1.00
Which o	of the following is not the required condition for a binary search algorithm?
<ul><li>○ a.</li></ul>	Number values should only be present
	Number values should only be present
<ul><li>b.</li></ul>	There must be a mechanism to delete and/or insert elements in the $\underline{\text{list}} \checkmark$
O c.	The <u>list</u> must be sorted
O d.	There should be direct access to the middle element in any sublist
Your an	swer is correct.
The cor	rrect answer is:
There n	nust be a mechanism to delete and/or insert elements in the <u>list</u>

Question <b>7</b>
Correct
Mark 1.00 out of 1.00
Very slow way of sorting is
○ a. Heap sort
<ul><li>□ b. Insertion sort ✓</li></ul>
c. Quick sort
o. Quiokook
○ d. Bubble sort
Your answer is correct.
The correct answer is:
Insertion sort
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. There must be a mechanism to access middle element directly
○ b. Must use a sorted array
o. Requirement of sorted array is expensive when a lot of insertion and deletions are needed
$_{\odot}$ d. Binary search algorithm is not efficient when the data elements more than 1500 $\checkmark$
Your answer is correct.
The correct answer is:
Binary search algorithm is not efficient when the data elements more than 1500
Question 9
Correct
Mark 1.00 out of 1.00
explain how an algorithm will perform when the input grows larger.
a. Merging
○ b. <u>Searching</u>
⊚ c. Complexity ✓
od. <u>Sorting</u>
Your answer is correct.
The correct answer is:
Complexity

/2024, 16:10	Week10_MCQ: Attempt review   REC-PS
Question 10	
Correct	
Mark 1.00 out of 1.00	
sort is the simplest <u>sorting</u> unordered in n-1 passes.	algorithm that works by repeatedly swapping the adjacent elements in case they are
a. Selection	
○ b. Insertion	
○ d. Complexity	
Your answer is correct.	
The correct answer is: Bubble	
Question <b>11</b>	
Correct	
Mark 1.00 out of 1.00	
The process of placing or rearranging a	a collection of elements into a particular order is known as

- a. <u>Sorting</u> ✓
- b. Merging
- oc. Searching
- od. Rearranging

Your answer is correct.

The correct answer is: Sorting

Question 12
Correct
Mark 1.00 out of 1.00
search takes a sorted/ordered <u>list</u> and divides it in the middle.
○ a. Linear
<ul><li>b. Both (1) &amp; (3)</li></ul>
○ c. Hash
■ d. Binary ✓
Your answer is correct.
The correct answer is:
Binary
Question 13
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> .
○ a. Extraction
○ b. Distribution
□ c. Insertion ✓
od. Selection
Your answer is correct.
The correct answer is:
Insertion
Question 14
Question 14  Correct
Mark 1.00 out of 1.00
Finding the location of a given item in a collection of items is called
a. Discovering
○ b. Mining
© c. <u>Searching</u> ✓
○ d. Finding
Your answer is correct.
The correct answer is: Searching

Question 15		
Correct		
Mark 1.00 out of 1.00		

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

- a. 89 and 94
- b. 90 and 99
- o. 94 and 99
- od. 90 and 100

Your answer is correct.

The correct answer is: 90 and 99

■ Searching

Jump to...

Week10\_Coding ▶

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

Started on	Monday, 10 June 2024, 7:11 PM
State	Finished
Completed on	Monday, 10 June 2024, 11:59 PM
Time taken	4 hours 47 mins
Marks	3.00/5.00
Grade	<b>60.00</b> out of 100.00

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

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

### **Constraints:**

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

### Input:

168 79 4 90 68 1 4 5

## output:

12

4 2

5 1

68 2

79 1

901

### For example:

In	ιрι	ıt				R	esult
4	3	5	3	4	5	3	2
						4	2
						5	2

```
def frequency_sorted(nums):
    freq = {}
    for num in nums:
        freq[num] = freq.get(num, 0) + 1
        sorted_freq = sorted(freq.items())
    for num, count in sorted_freq:
        print(num, count)
    nums = list(map(int, input().split()))
    frequency_sorted(nums)
```

	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

Marks for this submission: 1.00/1.00.

Question 2	
Not answered	
Mark 0.00 out of 1.00	

Write a Python program for binary search.

## For example:

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

1	
	1
	//

Question 3

Not answered

Mark 0.00 out of 1.00

Given an <u>list</u>, 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<i<n-1]

A[i-1] <= 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 n, the length of A.

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

### **Output Format**

Print peak numbers separated by space.

### Sample Input

5

8 9 10 2 6

## **Sample Output**

10 6

## For example:

Input	Result	
4 12 3 6 8	12 8	

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

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

#### **Input Format**

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

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

The third line contains integer k.

### **Output Format**

Print Yes or No.

### Sample Input

7 0 1 2 4 6 5 3

### **Sample Output**

Yes

### For example:

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

```
1 v def has_sum_to_k(nums, k):
 2
        num_set = set()
 3 ▼
        for num in nums:
 4
            complement = k - num
            if complement in num_set:
 5 🔻
 6
                 return "Yes"
        num_set.add(num)
return "No"
 7
 8
10
    n = int(input())
    nums = list(map(int, input().split()))
11
   k = int(input())
12
print(has_sum_to_k(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

Marks for this submission: 1.00/1.00.

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

Write a Python program to sort a  $\underline{\text{list}}$  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 %)

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

### ■ Week10\_MCQ

Jump to...

Sorting ▶