RAJALAKSHMI ENGINEERING COLLEGE

RAJALAKSHMI NAGAR, THANDALAM - 602 105



GE23231 PROGRAMMING USING PYTHON

Record Note Book

Name: Hariharan M

Register. No: 230601016

Year: I

Semester: II

Department: CIVIL ENGINEERING

Academic Year: 2023-2024

Dashboard / My courses / PSPP/PUP / Experiments based on Variables, Datatypes in Python. / Weekl Quiz

Started on	Thursday, 14 March 2024, 11:11 AM
State	Finished
Completed on	Thursday, 14 March 2024, 11:15 AM
Time taken	3 mins 10 secs
Grade	10.00 out of 10.00 (100%)
Question	
Correct	
Mark 1.00 out of 1.00	

What will be the output of the following code snippet?

a = 3

b = 1

print(a, b)

a, b = b, a

print(a, b)

- a. No output
- <u></u> b. 31

3 1

o c. 3 1 ✓

13

<u>d.</u> 13

3 1

Your answer is correct.

The correct answer is:

3 1

13

Question 2	
Correct	
Mark 1.00 out	1.00 to
Which on	e of the following is the correct extension of the Python file?
_ a.	.срр
О Ь.	.python
_ c.	·p
d.	.py ~
Your ansi	ver is correct.
	ct answer is:
.ру	
Question 3	
Correct	
Mark 1.00 out	of 1.00
Answer:	code to get Hoat input from the keyboard. (No need to assign to a variable) Hoat(input()) ct answer is: Hoat(input())
Question 4	
Correct	
Mark 1.00 out	0.01 to
What do	we use to detine a block ot code in Python language?
_ a.	Parenthesis
<u></u> Ь.	Key
C.	Indentation 🗸
<u>d</u> .	Curly brace
Your ansi	ver is correct.
The corre	ct answer is:

2u	estion 5
Cor	rrect
Ма	rk 1.00 out of 1.00
١	What will be the datatype of the var in the below code snippet?
1	var = 10
	print(type(var))
1	var = "Hello"
	print(type(var))
	a. int and str ✓
	○ b. Hoat and str
	c. int and int
	od. No output
,	Your answer is correct.
	The correct answer is: int and str
	we wik str
2u	estion 6
Cor	rrect
Ма	rk 1.00 out of 1.00
١	Who developed the Python language?
	a. Dennis Ritchie
	b. Von Neumann
	c. Bill Gates

The correct answer is: Guido Van Rossum

Question 7
Correct
Mark 1.00 out of 1.00
Which of the following declarations is incorrect in python language?
a. xyzp = 5,000,000
$b. x_{-}y_{-}z_{-}p = 5,000,000$
© c. x,y,z,p = 5000, 6000, 7000, 8000 ✓
(d. xyzp=5000600070008000
Your answer is correct.
The correct answer is:
x,y,z,p = 5000, 6000, 7000, 8000
Question 8
Correct
Mark 1.00 out of 1.00
What will be the output of the following python Code-
mystring="India is my country"
print(type(mystring))
○ a. 'str'
c. class str

d. str

Your answer is correct.

The correct answer is:

<class 'str'>

Question 9	
Correct	
Mark 1.00 out of 1.00	
Which of the following <u>functions</u> is a built-in function in python language?	
a. printf()	
b. print() ✓	
c. scant()	
Od. val()	
Your answer is correct.	
The correct answer is: print()	
Question 10	
Correct	
Mark 1.00 out of 1.00	
What will be the output of the following code snippet?	
print(type(5 / 2))	
<i>y</i>	
a. str	
○ b. int	
c. obj	
d. Hoat ✓	
Your answer is correct.	
The correct answer is:	
tloat	
← Basics of Python	
Coasies of Fython	
Lump to	

Week1_Coding →

<u>Dashboard / My courses / PSPP/PUP / Operators and Formatting Output. / Week2_MCQ</u>



What is the output of the following code

x = ["apple", "banana"]

y = ["apple", "banana"]

z = x

print(x is z)

print(x is y)

print(x == y)

a. True False False

b. FalseFalseTrue

c. True ✓FalseTrue

Od. True True True

Your answer is correct.

The correct answer is:

True

False

True

Question 2	
Correct	
Mark 1.00 out of 1.00	
In the Python statement x = a + 6 - c-d:	
• a and b are	
• a + 6 - c-d is	
a. operands, an expression ✓	
b. operands, an equation	
c. operators, a statement	
○ d. terms, a group	
Your answer is correct.	
The correct answer is:	
operands, an expression	
Question 3	
Correct	
Mark 1.00 ομt of 1.00	
State the output of the following code.	
num! = '10'	
num2 = '20'	
sum = num + num2	
print(sum)	
(a) a. 30	
<u></u> 6. 1020	
_ d. 10	
Your answer is correct.	
TOUT WISHER IS COTTECT.	

The correct answer is:

Error

estion 4	
rect	
rk 1.00 out of 1.00	
An identitier can have a maximum Length ot characters in Python.	
in wentifier curriave a maximum rengin of tharacters in 1 yerom.	
a. 50	
○ b. 31	
© c. 79 ✓	
O d. 7	
Your answer is correct.	
The correct answer is: 79	
estion 5	
rect	
rk 1.00 out of 1.00	
What will be the value of x in the tollowing Python expression, if the result of that expression is 2?	
x>>2	
(a) b.	
c. 2	

Your answer is correct.

The correct answer is:



The correct answer is:

• False True True True

Question 8
Correct
Mark 1.00 out of 1.00
What is the output of the following code

x = 4

y = 10

print(x % y)

a. 4 ✓

<u></u> *b.* 10

_ c. |

<u>d.</u> 6

Your answer is correct.

The correct answer is:

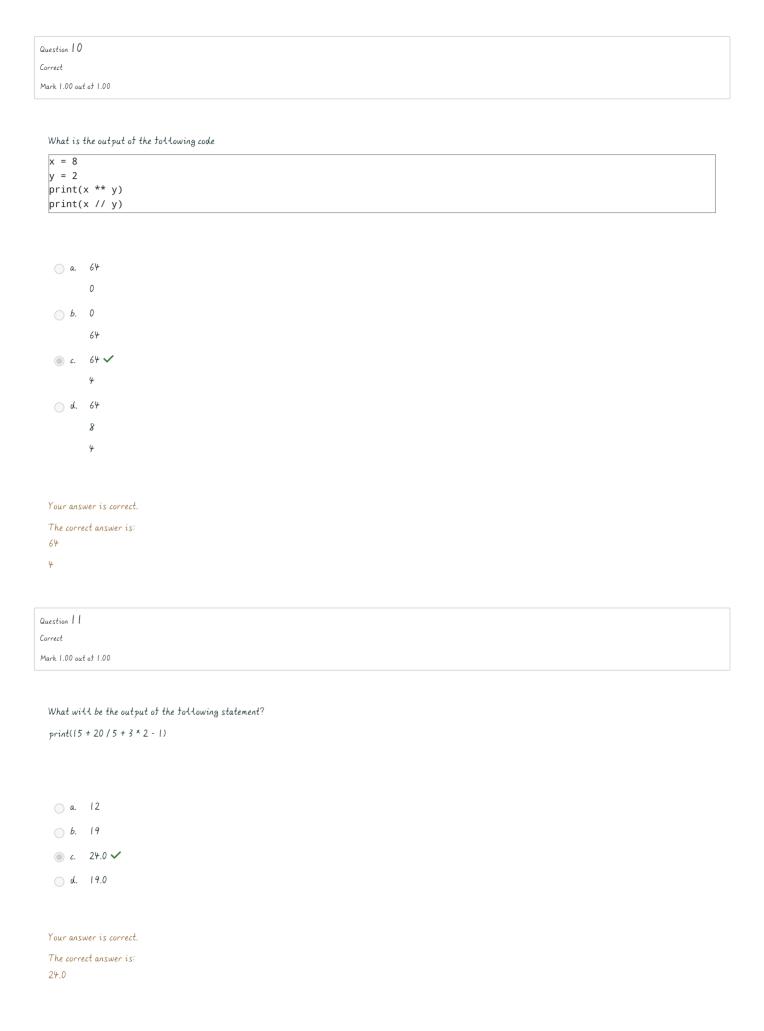
4

Mark 1.00 out of 1.00	
What is the output of the following code	
x = ["apple", "banana", "cherry"]	
#display the data type of x:	
print(type(x))	
a. <class 'int'=""></class>	
b. <class 'thoat'=""></class>	
c. <class'complex'></class'complex'>	
<class '<u="">list'></class>	

The correct answer is:

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

Question 9
Correct



Question 12
Correct
Mark 1.00 out of 1.00
What is the value of the expression 1+2**3*4+12*((100+4)*10-200//10) ?
What is the value of the expression 1-2 - 3 - 4-12 ((100-4) 10 2007/10)
a. 12493
○ c24568
Your answer is correct.
The correct answer is:
12273
Question 13
Correct
Mark 1.00 out of 1.00
Which among the tollowing <u>list</u> of <u>operators</u> has the highest precedence?
+, -, **, %, /, <<, >>,
_ a. %
○ b. «,»

The correct answer is:

ХX

Question 14
Correct
Mark 1.00 out of 1.00
What is the two's complement of -44?
a. 11010100 ✓
<u></u> Б. 10110011
_ c. 1011011
Your answer is correct.
The correct answer is:
11010100
Question 15
Correct
Mark 1.00 out of 1.00
What is the output of the following code
x = 5
y = 3
print(x == y)
a. 5==3
Ob. True
a. Error
a. ravse ✓
Your answer is correct.
The correct answer is:
False
← Operators
Jumpto

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Algorithmic Approach: Selection control structures</u> / <u>Week3_mcq</u>

C11l	Friday, 29 March 2024, 8:13 PM
	Finished
	Friday, 29 March 2024, 8:21 PM
	7 mins 41 secs
Grade	15.00 out of 15.00 (100%)
Question	
Correct	
Mark 1.00 out of 1.00	
	the given below program?
if 1 + 3 == 7:	
print("Hello")	
etse:	
print("Know Program	")
a. Error	
b. Compiled Su	ccesstully, No Output.
c. Hello	
d. Know Program	
W. Mow Program	• •
Your answer is correct.	
The correct answer is:	
Know Program	
Question 2	
Correct	
Mark 1.00 out of 1.00	
,	
is an em	ipty statement in Python.
oa. Jump	
b. pass ✓	
c. Empty	
d. None	
V. ITORE	

Your answer is correct.
The correct answer is:
pass

```
Question 3
Correct
Mark 1.00 out of 1.00
 What is the output of the given below program?
  if 1 + 3 == 7:
    print("Hello")
  else:
    print("REC")
   a. Hello

    b. REC 

✓
   c. Compiled Successfully, No Output.
  Your answer is correct.
  The correct answer is:
  REC
Question 4
Correct
Mark 1.00 out of 1.00
 What will be the output of the given code?
  x,y=1,1
  if(x ==y):
    print("equal")
  it(x>y):
    print("1")
  else:
    print("0")
   a. equal 
           0
   <u></u> Ь. І
   c. equal
   <u>d.</u> 0
  Your answer is correct.
```

The correct answer is:

equal O

Question 5
Correct
Mark 1.00 out of 1.00
Can we write it/else into one line in python?
a. No
b. Yes ✓
Your answer is correct.
The correct answer is:
Yes
Question 6
Correct
Mark 1.00 out of 1.00
What is the output of the given below program?
if 1 + 3 == 7:
<pre>print("Hello") also:</pre>
else: print("Know Program")
a. Compiled Successfully, No Output
b. Know Program ✓
○ c. Hello
○ d. Error

The correct answer is:

Know Program

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

What is the output of the following snippet?

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

a. IIT IIT Ropar 

b. IIT IIT Punjab

c. IIT Ropar

d. IIT Punjab
```

Your answer is correct.

The correct answer is:

IIT IIT Ropar

```
Question 8

Correct

Mark 1.00 out of 1.00
```

Which of the following is true about the code below?

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

- a. it x is greater than 2, the value in x will be doubled after this code executes
- b. x will always equal 0 after this code executes for any value of x
- c. it x is greater than 2, x will equal 0 after this code executes ✓
- od. it x is lesser then 0,x will be 0 after this code executes

Your answer is correct.

The correct answer is:

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

Question 9	
Correct	
Mark 1.00 out of 1.00	

What will be the output? a=11 b=5 if (a%b==0): print ("hello") if (a//b==0): print ("hi") else: print ("python") a. python ✓ b. hello

Your answer is correct.

c. hi

The correct answer is: python

```
Question | 0

Correct

Mark 1.00 out of 1.00
```

Write the output of the following code:

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

- a. REC-AERO
- b. AeroRECREC-Aero
- C. All the Above
- d. REC-AERO

 ✓

Your answer is correct.

The correct answer is: REC-AERO

```
Question [ ]

Correct

Mark 1.00 out of 1.00
```

What is the output of the given below program? a = 25 if a > 15: print("Hi") if a <= 30: print("Hello") else: print("Know Program")

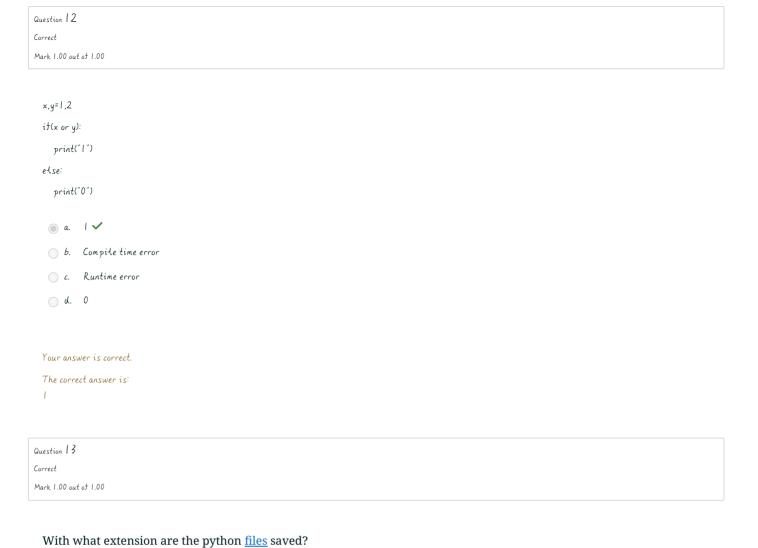
- a. Hello
- b. Hi
 ✓
 Hello
- c. HìKnow Program
- Od. Hello Know Program

Your answer is correct.

The correct answer is:

Ηì

Hello



a. .pythonb. .pync. .pd. .py ✓

Your answer is correct.

The correct answer is:

Question 14	
Correct	
Mark 1.00 out	of 1.00
	wants to make a tun program , it user enters any number a "Good" or "tunny" message will appear . She is contused that which is t suitable control to be used to make such program. Help her to choose correct option.
_ a.	it elit
О Ь.	l t
C.	it else 🗸
_ d.	Nested it
	ver is correct.
The corre it else	ct answer is:
i) etse	
Question 15	
Correct	
Mark 1.00 out	of 1.00
Which	of the following statements correctly represents taking input from user in python?
_ a.	None of the mentioned
О Ь.	a=get("Enter the value")
_ c.	a=inp("Enter the value")
ø d.	a=input("Enter the value") 🗸
	ver is correct.
	ct answer is: t("Enter the value")
← Sete	ction control structures
Jump to	

Week3_coding →

<u>Dashboard</u>	/ <u>My courses</u> 1	/ <u>PSPP/PUP</u> / <u>Algorithmic Approach: Iteration control structures.</u> / <u>Weekt_mcq</u>	
	Started on	Thursday, 18 April 2024, 10:38 AM	
	State	Finished	
		Thursday, 18 April 2024, 10:47 AM	
	Time taken	8 mins 44 secs	
Question			
Complete			
For loo;	p in python is		
a.	a. Simple Loop		
О Ь.	Multi Contro	d Loop	
O c.	Exit Control	Loop	
_ d.	Entry Contro	l Loop	
Question 2			
Complete			
While 4	loop can execute	a set of statements till	
_ a.	The condition	is True	
b.	The condition	starts executing	
_ c.	The condition	stops executing	

uestion 3	
omplete	
<pre>How many times the loop run? for i in range(-3): print(i)</pre>	

Answer: 3

d. The condition is False

```
Question 4
Complete
 i = 1
 while i < 4:
    print(i)
    if (i == 2):
       break
 i += 1
 Predict the output of the following?
  a. 12
  <u>ы.</u> 234
  c. 1234
  od. Compiler Error
Question 5
Complete
 num =0
 while num < 5:
    num = num + 1
      print('num = ', num)
 Predict the output of the following?
  a. Runtime error
  6. Runs correctly
  c. Indentation Error
  d. Prints no output
Question 6
Complete
 Which of the following is a loop in python?
  a. For
  c. Break
  d. It-Else
```

```
Question 7
Complete
 Predict the output of the program?
 for x in range(2, 8, 5):
      print(x)
  a. 2468
  <u>ы.</u> 27
  c. 2345678
  <u>d.</u> 28
Question 8
Complete
 How many times the loop run?
 for i in range(-3):
     print(i)
 Answer: 3
Question 9
Complete
 The range() tunction returns a
  a. sequence of bytes
  b. sequence of lists
  c. sequence of set
  d. sequence of numbers
```

```
Question 10
Complete
```

```
Predict the output of the program?
for x in range(4):
   if x == 3: break
      print(x)
   else:
      print("Finally finished!")
```

a. Finally Finished!

<u></u> b. 0

1

2

2

Finally Finished!

_ c. 0

1

2

d. 0

1

2

3

Question | | Complete

```
Predict the output of the following
i = 2
while i < 4:
   print(i)
   i += 1</pre>
```

a. 1234

<u></u> b. 34

c. 234

d. 23

```
Question 12
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. Compilation error
- b. 03691215
- c. 0369121518
- d. 0391218

Question 13
Complete

```
Predict the output of the program?
for x in range(2, 8, 5):
    print(x)
```

- a. 28
- b. 27
- c. 2468
- d. 2345678

Question 14 Complete

```
numbers = (8, 9, 11, 20)
a = 1
for num in numbers:
    a = a * num
print(a)
```

Predict the output of the program?

Answer: 8 9 11 20

Question 15	
Complete	

Which one of them is the correct syntax of for loop in python?

- for[sequence] in [sequence]:
 loop body
- for[sequence] in [item]:
 loop body
- oc. for [item] in [item]: loop body
- _ d. for [item] in [sequence]: loop body

← Iteration control structures

Jump to...

Week4_Coding →

Dashboard / My courses / PSPP/PUP / Experiments based on Strings and its operations. / Week5_MCQ

Started on	Thursday, 9 May 2024, 10:42 AM
State	Finished
Completed on	Thursday, 9 May 2024, 11:10 AM
Time taken	27 mins 43 secs
Grade	7.00 out of 15.00 (46.67%)
Question	
orrect	
1ark 1.00 out of 1.00	
what is the outp	ut of the following code ?
str = "Welcome"	
str[2] = 'a'	
print(str)	
a. Error	<u>Strings</u> cannot be modified

Your answer is correct.

b. aWelcomec. Welcomead. Weacome

The correct answer is:

Error

Question 2
Incorrect
Mark 0.00 out of 1.00
my_string = "arvjayakumar"
i = "i"
while i in my_string:
print(i, end =" ")
o a iiiiii ×
○ b. arvjayakumar
C. None
od. arvjayakumar
and Judgman was
Your answer is incorrect.
The correct answer is:
None
Question 3
Incorrect
Mark 0.00 out of 1.00
What is the output of "hello"+1+2+3?
a. hello6
b. hello123 X
○ c. hello
od. Error

The correct answer is:

Error

Question 4
Incorrect
Mark 0.00 out of 1.00
What will the below Python code will return?
str1="save paper,save plants" str1.find("save")
$_{\odot}$ a. It returns the tirst index position of the last occurance of "save" in the given string str1. $ imes$
b. It returns the last index position of the last occurance of "save" in the given string strl.
c. It returns the tirst index position of the tirst occurance of "save" in the given string strl.
d. It returns the last index position of the first occurance of "save" in the given string str1.
Your answer is incorrect.
The correct answer is:
It returns the tirst index position of the tirst occurance of "save" in the given string strl.
Question 5
Incorrect
Mark 0.00 out of 1.00
What is the output of the following code?
example = "snow world"
example[3] = 's' print example
print example
a. snow world
b. snos world
c. Error
○ d. snow
Your answer is incorrect.
The correct answer is: Error

Question 6
Correct Mark 1.00 out of 1.00
Miarr 1.00 out o) 1.00
What is the output of the following code?
strl="vijay"
tor i in range(len(strl)):
print(i, end="")
a. vijay
c. None of the above
od. No output
Your answer is correct.
The correct answer is:
01234
Question 7
Incorrect
Mark 0.00 out of 1.00
What is the output of the following code?
print('*', "abcde".center(7), '*', sep='')
○ a. *abcde*
b. * abcde*
○ d. *abcde*
on were
Your answer is incorrect.

The correct answer is:

* abcde *

Question 8
Incorrect
Mark 0.00 out of 1.00
Which of the following will give "Vijay" as output?
str1="John,Vijay,Aryan"
a. print(str1[-11:-7]) ×
(a) b. print(str[[-1]:-6])
o. print(str[[-7:-1])
od. print(str[[-7:-12])
Your answer is incorrect.
The correct answer is:
print(str1[-11:-6])
Question 9
Correct
Mark 1.00 out of 1.00
Which of the following are valid string manipulation <u>functions</u> in Python?
 a. All of the mentioned ✓ All of the above are valid string manipulation <u>functions</u> in Python.
○ b. upper()
c. count()
○ d. strip()

The correct answer is: All of the mentioned

Question 10 Correct			
Mark 1.00 out	t of 1.00		
Which of	t the tollowing is False?		
_ a.	None of the mentioned		
О Ь.	lower() function in string is used to return a string by a	converting the whole given string into lowercase.	
_ c.	String is immutable.		
(a) d.	return a string by converting the whole given in	pitalize() tunction in string gives the output by converting only the tirst character of the string to uppercase and rest characters into lowercase. However, upper() tunction is used to return the note string into uppercase.	
Your answer is correct. The correct answer is: capitalize() function in string is used to return a string by converting the whole given string into uppercase.			
Question Correct Mark 1.00 out	1.1.00		
Mark 1.00 out	το 1.00		
What is the output of the following code?			
<pre>line = "What will have so will" L = line.split('a') for i in L: print(i, end=' ')</pre>			
 a. Whit will hive split() will use 'a' as the delimiter. It'll create partition at 'a', thus split() return an array L, which is in ['Wh', 't will h', 've so will will']. For loop will print the elements of the list. 			
О Ь.	b. ['What', 'will', 'have', 'so', 'will']		
<u></u> с.	What will have so will		
od.	('Wh', 't will h', 've so will')		

The correct answer is:
What will have so will

Question 2	
Correct	
Mark 1.00 out of 1.00	
What is the output of the following Code?	
strl="vijay"	
print(strl.capitalize())	
Answer: Vijay	
The correct answer is: Vijay	
Question 3	
Incorrect Mark 0.00 out at 1.00	
PHARK U.UU DUE DJ 1.UU	
What is the output of the following Code?	
print(ord('C'))	
Answer:	×
unzwer- 1	^
The correct answer is: 67	
Question 4	
Correct	
Mark 1.00 out of 1.00	
What will be the output of below Python code?	
mac mili se the carpat of seion (fine) code.	
str1="poWer"	
<pre>str1.upper() print(str1)</pre>	
Answer: POWER	~
	_
add asset O advantable asset as to be deaded as the U.S. and U.S.	Secretary will be the experience of
strl.upper() returns the uppercase of whole string strl. However, it does not change the string strl.	oo, output with be the original str1.

Question | 5
Incorrect
Mark 0.00 out of 1.00

What is the output of the following code?

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

- 🌑 a. arvjayakumar 🗙
- b. None
- c. 0 | 2 3 ... | 2
- d. Error

Your answer is incorrect.

The correct answer is:

Error

← Strings

Jump to...

Week5_Coding →

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Experiments based on Lists and its operations.</u> / <u>Week6_MCQ</u>

Started on Monday, 20 May 2024, 2:54 PM		
State Finished		
Completed on Monday, 20 May 2024, 3:20 PM		
Time taken 25 mins 47 secs		
Grade 7.50 out of 15.00 (50%)		
Question		
Correct		
Mark 1.00 out of 1.00		
(-t'a.\r'\a\l.\r'\7\r'\		
L=['Amit', 'Anita', 'Zee', 'Longest Word']		
print(max(L))		
Answer: zee		
M2Me1. Zee		
The correct answer is: Zee		
Question 2		
Incorrect		
Mark 0.00 out of 1.00		
Find the output?		
list3=[]		
list1 = 'REC_CSE_ECE'		
list2= list1.split('_')		
tor i in tist2:		
List3.extend(i)		
print(len(list3))		
(a. 11		
⊚ c. 3 X		
(iii) C. 7 ^		

Your answer is incorrect.

The correct answer is:

9

```
Question 3
Partially correct
Mark 0.50 out of 1.00
 what is correct syntax to copy one <u>list</u> into another <u>list</u>?
   a. listA = listB[]
   ___ b. listA = listB[]()

✓ c. listA = <u>list(listB)</u> ✓
   d. listA = listB[:]
 Your answer is partially correct.
 You have correctly selected 1.
  The correct answers are:
  ListA = ListB[:],
 listA = <u>list</u>(listB)
Question 4
Correct
Mark 1.00 out of 1.00
 What will be the output after the following statements?
 m = [50, 25, 65, 0, 99]
 n = max(m)
 print
   a. 99 ✓
   b. 0
   _ c. 25
```

Your answer is correct.

The correct answer is:

99

Question 5	
ncorrect	
Mark 0.00 out of 1.00	
Write the output of the following:	
L = ['Amit', 'anita', 'Sumant', 'Zaid']	
<pre>print(max(L))</pre>	
Answer: zaid	×
Write the output of the following:	
L = ['Amit', 'anita', 'Sumant', 'Zaid']	
<pre>print(max(L))</pre>	
The correct answer is: anita	
Question 6 Incorrect	
name 0.00 out of 1.00	
ian k o loo bac of 1.00	
To shuttle the <u>list</u> (say list1) what tunction do we use?	
⊚ a. list1.shuttle() ×	
6. random.shuttle(list1)	
c. random.shuttleList(list1)	

Your answer is incorrect.

The correct answer is: random.shuttle(list1)

```
Question 7
Incorrect
Mark 0.00 out of 1.00
```

What is the output of the following code?

```
list! = ["hi", "we", "are", "the", "elements", "in", "a", "list"]
for i in range(\(\psi\)):
    print(list![i])

a. hi we are the elements in a list ×

b. hi we are the elements

c. hi we are

d. hi we are the
```

Your answer is incorrect.

The correct answer is: hi we are the

```
Question 8

Correct

Mark 1.00 out of 1.00
```

```
What will be the output after the following statements?

m = ['Play']

n = ['Games', 'in', 'Python']

o = m + n

print(o)

a. ['PlayGames', 'in', 'Python']

b. ['Games', 'in', 'Python', 'Play']

c. ['Play', 'Games', 'in', 'Python'] 

d. ['Play Games', 'in', 'Python']
```

Your answer is correct.

The correct answer is:
['Play', 'Games', 'in', 'Python']

Question 9		
Correct		
Mark 1.00 out of 1.00		
Suppose list1 is [2, 33, 222, 14, 25], What is list1[-3]?		
○ a. 25		
O c. 14		
Your answer is correct.		
The correct answer is:		
Question 10		
Incorrect		
Mark 0.00 out of 1.00		
Find the output?		
list = <u>list('REC_CSE_ECE')</u>		
print('r' not in List1)		
a. talse		
○ b. true		
○ c. True		

Your answer is incorrect.

The correct answer is:

True

Question			
Correct			
Mark 1.00 out of 1.00			
Write the output of the following			
list1=[3,2,5,7,3,6]			
list1.remove(3)			
<pre>print(sum(list1))</pre>			
a. 23 ✓			
<u> </u>			
c. 20			
Your answer is correct.			
The correct answer is:			
23			
Question 12			
Correct			
Mark 1.00 out of 1.00			

a. [30, 40, 50] ✓

b. [20, 30, 40, 50]

c. [10, 20, 30, 40]

d. [20, 30, 40]

Your answer is correct.

The correct answer is: [30, 40, 50]

```
Question | 3
Incorrect
Mark 0.00 out of 1.00
```

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

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

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

Your answer is incorrect.

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

Question 14

Correct

Mark 1.00 out of 1.00

What will be the output after the following statements? m = ['July', 'September', 'December'] n = m[1] print?

- a. ['July', 'September', 'December']
- o b. December
- o c. September ✓
- od. July

Your answer is correct.

The correct answer is: September

Question 15	
Incorrect	
Mark 0.00 out of 1.00	
Write the output of the following:	
<pre>D = [1,2,3] D1 = D D.append(4) print(D1)</pre>	
	٦.,
Answer: [1,2,3,4]	×
The correct answer is: [1, 2, 3, 4]	
← List	
Jump to	

Week6_Coding →

Dashboard / My courses / PSPP/PUP / Experiments based on Tuples, Sets and its operations / Week7_MCQ



Question |
Correct

What is the output of the given below program?

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

x = t[2:-1]

Mark 1.00 out of 1.00

print(x)

- a. (3,14,25)
- b. Error
- c. (58,47,36,25)
- d. (36, 25, 14)

 ✓

Your answer is correct.

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

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

What will the below Python code do?

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

- a. "==" is not supported for set in Python
- b. No, No
- c. Yes, Yes
- d. Yes, No
 ✓

Your answer is correct.

The correct answer is:

Yes, No

Question 3	
Correct	
Mark 1.00 out of 1.00	
Fig. 11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
Find the output of the given Python program? t1 = (1,2,3,(4,5))	
t2 = (3,2,1,(4,5))	
print(t1>t2)	
a. Error	
○ b. True	
Od. Error	
Your answer is correct.	
The correct answers are:	
False,	
Error	
Question 4	
Correct	
Mark 1.00 out of 1.00	
What is the output of the given below program?	
t1 = (1,2,3)	
t2 = (4,5,6)	
x = t1+t2	
print(x)	

a. (1,2,3)(4,5,6)
b. (1,2,3,4,5,6) ✓
c. (1,2,3,3,2,1)

d. Error

Your answer is correct.

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

Question 5 Correct Mark 1.00 out of 1.00 What is the output of the following code? aTuple = (10, 20, 30, 40, 50, 60, 70, 80)

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

print(aTuple[2:5], aTuple[:4], aTuple[3:])

- b. (30, 40, 50) (10, 20, 30, 40)
- c. (30, 40, 50)(40, 50, 60, 70, 80)

Your answer is correct.

The correct answer is: (30, 40, 50) (10, 20, 30, 40) (40, 50, 60, 70, 80)

Question 6

Correct

Mark 1.00 out of 1.00

Find the output of the given Python program?

t = (11, 3)

x = 3 * t

print(x)

- a. (11, 3, 11, 3, 11, 3)
 ✓
- b. [11,11,11,3,3,3]
- c. (11,3)(11,3)(11,3)
- d. (11,3,11,11,3,11,11,11,3)

Your answer is correct.

The correct answer is: (11, 3, 11, 3)

Question 7

Correct

Mark 1.00 out of 1.00

Find the output of the given Python program?

- a. [2, 3, 9]
- <u>ы.</u> [1, 2, 4, 3, 8, 9]
- c. (1,4,8)
- d. [1, 4, 8]
 ✓

Your answer is correct.

The correct answer is:

[1,4,8]



Mark 1.00 out of 1.00

What is the output of the following

```
set1 = {1, 2, 3, 4, 5}
set2 = {6, 7, 1, 3, 4, 8, 2, 5}
print(set1.issubset(set2))
print(set2.issuperset(set1))
```

a. False

False

Ob. True

False

C. False

True

d. True
✓

True

Your answer is correct.

The correct answer is:

True

True

Question 9	
Incorrect	
Mark 0.00 out of 1.00	
What is the output of the given below program?	
$my_{t} = (1, 2, 3, 4)$	
my_tl.append((5, 6, 7))	
print(len(my_t1))	
a. 2 ★	
○ c. 5	
○ d. Error	
Your answer is incorrect.	
The correct answer is:	
Error	
Question 0	
Correct	
Mark 1.00 out of 1.00	
Which of the following options will not result in an error when performed on <u>tuples</u> in Python where tupl=(5,2,7,0,3)? a. tupl.append(2)	
b. tupl.sort()	
c. tup([1]=2	
a. tupl1=tupl+tupl ✓	
a. tupi1-tupi+tupi √	
Your answer is correct.	
The correct answer is:	
The correct answer is: tupl=tupl+tupl	
tupl=tupl+tupl	
tupl=tupl+tupl Question	
tupl=tupl+tupl Question	
Question Correct	
Question Correct	
tupl=tupl+tupl Question Correct Mark 1.00 out of 1.00	
Lupl=tupl+tupl Question Correct Mark 1.00 out of 1.00 A python tuple can be created without using any parentheses. (True/False)	
tupl=tupl+tupl Question Correct Mark 1.00 out of 1.00 A python tuple can be created without using any parentheses. (True/False) ■ a. True ✓	
tupl = tupl + tupl Question Correct Mark 1.00 out of 1.00 A python tuple can be created without using any parentheses. (True/False) ■ a. True ✓	

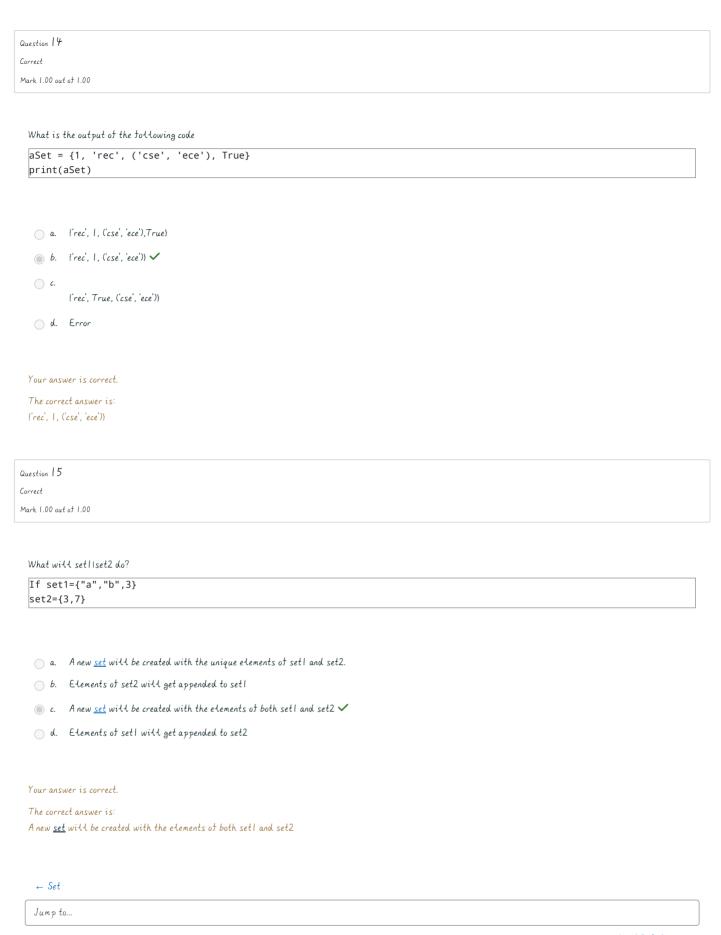
True

Question 12
Correct
Mark 1.00 out of 1.00
What will be the output of following Python code?
list1=[1,3,4,2]
x=list1.pop(2)
<pre>print(set([x]))</pre>
(a. [1,3,4)
○ b. f1,3,2)
⊚ c. (4)
(d. 12)
Your answer is correct.
The correct answer is:
[Y]
Question 13
Incorrect
Mark 0.00 out of 1.00
Which of the following Python code will create a <u>set</u> ?
(i) set = set ((0,9,0))
(ii) set!= <u>set(</u> (0,2,9)) (iii) set!=[)
oa. ii
b. All of the above ★
\bigcirc c. i,ii
○ d. iii

Your answer is incorrect.

The correct answer is:

i,ii



Dashboard / My courses / PSPP/PUP / Experiments based on Dictionary and its operations. / Week8_MCQ

Started on	Saturday, I June 2024, 7:09 PM	
State	Finished	
Completed on	Saturday, I June 2024, 7:14 PM	
Time taken	5 mins 23 secs	
Grade	8.00 out of 15.00 (53.33%)	
Question		
Incorrect		
Mark 0.00 out of 1.00		
Suppose d = i"john":40,	"peter":45), to delete the entry tor "john" what command do we use?	
a. del d["john']		
→ b. del d("john":	40)	
c. d.delete("joh	n'')	
d. d.delete("joh	a":40) ×	
Your answer is incorrec	t.	
The correct answer is:		
det d["john"]		
Question 2		
Correct		
Mark 1.00 out of 1.00		
Which of the following are immutable data type? A. String B. Tuple C. <u>List</u> D. <u>Dictionary</u>		
a. candd		
b. b and d		
○ c. a and b ✓		
d. a and c		
v. uww.c		

The correct answer is: a and b

Question 3	
Correct	
Mark 1.00 out	01.1 to
In Python	s, Dictionaries are immutable
Select on	e:
O True	
Fals	e 🗸
The corre	ct answer is 'False'.
Question 4	
Incorrect	
Mark 0.00 out	of 1.00
To obtain	the number of entries in <u>dictionary</u> which command is used?
_ a.	len(d)
О Ь.	size(d)
_ c.	d.size()
d.	d.len() ×
Your answ	ver is incorrect.
	ct answer is:
len(d)	et wiswer 15.
Question 5 Correct	
Mark 1.00 out	of 1.00
Which on	e of the following is correct?
_ a.	A <u>dictionary</u> can have two same keys or same values but cannot have two same key-value pair
<u></u> Ь.	A python, a <u>dictionary</u> can neither have two same keys nor two same values.
C.	A <u>dictionary</u> can have two same values with ditterent keys. ✓
_ d.	A <u>dictionary</u> can have two same keys with different values.
Your oas	ver is correct.
	ct answer is: <u>ary</u> can have two same values with ditterent keys.

Question 6	
Correct	
Mark 1.00 out	of 1.00
1/ /	
Key - van	ue concept is in
_ a.	<u>List</u>
О Ь.	Tuple
_ c.	String
d.	Dictionary
The corre	ct answer is: <u>Dictionary</u>
Question 7	
Correct	
Mark 1.00 out	e of 1.00
102	
1,2,3 are	the in the following <u>dictionary</u> . D = [1 : "One", 2 : "Two", 3 : "Three")
_ a.	Values
О Ь.	Items
() c.	None of the mentioned
	Keys ✓
The corre	ct answer is: Keys
0	
Question 8	
Correct Mark 1.00 out	1.00
riark 1.00 bai	.071.00
Which of	the tollowing is an example of <u>dictionary</u> ?
	r - A
_ a.	
	None of the mentioned
	D = () ~
d.	L=[]

The correct answer is: D = []

Question 9
Correct
Mark 1.00 out of 1.00
In <u>dictionary</u> Keys and values are separated by
a. Semicolon(;)
b. Colon (♥) ✓
c. Comma(,)
od. dot(.)
The correct answer is: Colon (🙂
Question 10
Incorrect
Mark 0.00 out of 1.00
function returns the value corresponding to the key passed as the argument.
a. values
○ b. get
○ c. update⑤
od. de√e
The correct answer is: get
Question
Correct Mark 1.00 out of 1.00
datatype tall under mapping.
o a. <u>List</u>
b. String
○ c. <u>Dictionary</u> ✓
d. Tuple

The correct answer is: Dictionary

Question 12	
Incorrect	
Mark 0.00 out of 1.0	
Which of the t	ollowing is not method of <u>dictionary</u> ?
<u>а.</u> рор	
b. del	
oc. len	X
od. upda	te 😂
~ ·	
The correct ans	wer is: del 🛢
Question 13	
Incorrect	
Mark 0.00 out of 1.0	
a. D1.p	op(7) ×
6. D1.d	
_ c. D1.v.	
d. D1.9	
V. 21.9	
The correct ans	wer is: D1.get(7)
Question 14	
Question 4 Incorrect	
Question 4 Incorrect Mark 0.00 out of 1.00	
Incorrect	
Incorrect Mark 0.00 out of 1.00	
Incorrect Mark 0.00 out of 1.00	oithout keys) can be printed in <u>dictionary</u> ?
Incorrect Mark 0.00 out of 1.00	rithout keys) can be printed in <u>dictionary</u> ?
Incorrect Mark 0.00 out of 1.00 Only values (u	vithout keys) can be printed in <u>dictionary</u> ?
Incorrect Mark 0.00 out of 1.00 Only values (u	vithout keys) can be printed in <u>dictionary</u> ?
Incorrect Mark 0.00 out of 1.00 Only values (u a. True	eithout keys) can be printed in <u>dictionary</u> ?

uestion 15
ncorrect
Tark 0.00 out of 1.00
Choose the correct statement, in reterence to the tollowing code: D1.update(D2) #D1 and D2 are dictionaries
a. It will merge all the elements of <u>dictionary</u> 'D2' in <u>dictionary</u> 'D1'.
6. It will create a new <u>dictionary</u> .
c. It will merge all the elements of dictionary 'DI' in dictionary 'D2'.
$_{\odot}$ d. None of the mentioned $ imes$
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>Functions: Built-in functions, User-defined functions, Recursive functions</u> / <u>Week9_MCQ</u>

Started on	Tuesday, 28 May 2024, 10:51 PM
State	Finished
	Tuesday, 28 May 2024, 11:09 PM
	17 mins 24 secs
Grade	14.00 out of 15.00 (93.33 %)
Question 1	
Correct	
Mark 1.00 out of 1.00	
Which of the follow	ing items are present in the function header?
a. parameter	<u>list</u>
b. function na	ame
o. return valu	e e
d. Both A and	
a. Bomirtano	
Your answer is corr	ect.
The correct answer	is:
Both A and B	
Question 2	
Correct	
Mark 1.00 out of 1.00	
The return stateme	nt in function is used to
a. Both return	value and returns the control to the calling function 🗸
b. return valu	e e
c. returns the	control to the calling function
d. None of th	e mentioned

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

Question 3	
Correct	
Mark 1.00 c	ut of 1.00
def disp for i i pri	the output of the following display() function call? play(**kwargs): n kwargs: nt(i) (emp="Kelly", salary=9000)
_ a.	Kelly 9000
_ b.	('emp', 'Kelly') ('salary', 9000)
C.	emp 🗸 salary
_ d.	TypeError
Your an	swer is correct.
	rect answer is:
emp salary	
Question 4 Correct	
Mark 1.00 c	ut of 1.00
The par	t of the program where a variable is accessible is known as the of that variable
○ a.	module
	none of the mentioned
	scope ✓
	part

The correct answer is: scope

Question 5	
Correct	
Mark 1.00 c	ut of 1.00
Which	and of the following is the correct way of colling a function?
WITICH	one of the following is the correct way of calling a function?
a.	function_name() ✓
O b.	call function_name()
_ c.	function function_name()
○ d.	ret function_name()
	swer is correct.
	rect answer is: n_name()
runction	
Question 6	
Correct	
Mark 1.00 c	ut of 1.00
Write th	e output of : print(abs(-45))
(a.	45 0
) b.	
C.	
(d.	None of the mentioned
The cor	rect answer is: 45
Question 7	
Correct	
Mark 1.00 c	ut of 1.00
Which o	of the following statement is a function call?
a.	sum
○ b.	def sum⊜
○ c.	
d.	call sum@

The correct answer is: sum

Question 8
Correct
Mark 1.00 out of 1.00
Which of the following function definition header is wrong?
a. def scan(p1, p2 = 4, p3 = 5):
b. def sum(n1, n2, n = 3):
o. def mul(p1, n1, m1):
The correct answer is: def div(p1=4, p2, p3):
Question 9
Incorrect
Mark 0.00 out of 1.00
Python function always returns a value
Select one:
○ True
False X
The correct answer is 'True'.
Question 10
Correct
Mark 1.00 out of 1.00
Which of the following is not the scope of variable?
a. Global
b. Outside ✓
o. Local
○ d. None of the mentioned

The correct answer is: Outside

Question 11	
Correct	
Mark 1.00 out of 1.00	
Which of the following is not the type of function argument?	
 □ a. Keyword argument 	
b. default argument	
○ c. Required argument	
■ d. initial argument ✓	
The correct answer is: initial argument	
Question 12	
Correct	
Mark 1.00 out of 1.00	
What is the output of the add() function call?	
def add(a, b):	
return a+5, b+5	
result = add(3, 2) print(result)	
print(readly)	
○ a. 8	
○ b. 15	
○ c. Syntax Error	
⊚ d. _(8,7) ✓	
Your answer is correct.	
The correct answer is:	
(8,7)	

Question 13
Correct
Mark 1.00 out of 1.00
Write the output of : print(min(tuple("computer")))
o a. t
○ b. u
⊚ c. c
○ d. o
The correct answer is: c
Question 14
Correct
Mark 1.00 out of 1.00
The statement returns the values from the function to the calling function.
a. give
○ b. send
○ c. take
The correct answer is: return
Question 15
Correct
Mark 1.00 out of 1.00
Which of the following statement is not true regarding <u>functions</u> ?
a. Function header always ends with a colon (o
b. A function definition begins with "define" ✓
c. A function may or may not have parameters.
d. A function may or may not return value.
The correct answer is: A function definition begins with "define"
← Functions
Jump to

Dashboard / My courses / PSPP/PUP / Searching techniques: Linear and Binary / Week10_MCQ

The correct answer is: Divide and conquer

Started on	Tuesday, 28 May 2024, 11:38 PM
State	Finished
Completed on	Tuesday, 28 May 2024, 11:43 PM
	4 mins 42 secs
Grade	15.00 out of 15.00 (100 %)
Question 1	
Correct	
Mark 1.00 out of 1.00	
Given an array arr = levels of recursion? a. 90 and 99 b. 89 and 99 c. 89 and 94 d. 90 and 94	
Your answer is corrot The correct answer 90 and 99	
Question 2	
Correct	
Mark 1.00 out of 1.00	
a. Divide and	rogramming ng
Your answer is corr	ect.

Question 3	
Correct	
Mark 1.00 o	ut of 1.00
Which o	f the following is not the required condition for a binary search algorithm?
a.	There must be a mechanism to delete and/or insert elements in the $\underline{\text{list}} \checkmark$
○ b.	The <u>list</u> must be sorted
_ c.	There should be direct access to the middle element in any sublist
d.	Number values should only be present
	Number values should only be present
Your ans	swer is correct.
The corr	rect answer is:
There m	ust be a mechanism to delete and/or insert elements in the <u>list</u>
Question 4	
Correct	
Mark 1.00 o	ut of 1.00
Which o	f the following is not a limitation of binary search algorithm?
_ a.	Requirement of sorted array is expensive when a lot of insertion and deletions are needed
b.	Binary search algorithm is not efficient when the data elements more than 1500 \checkmark
_ c.	There must be a mechanism to access middle element directly
d.	Must use a sorted array

Your answer is correct.

The correct answer is:

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

Question 5
Correct
Mark 1.00 out of 1.00
Finding the location of a given item in a collection of items is called
a. Mining
Ob. Finding
o. Discovering
Your answer is correct.
The correct answer is:
Searching
Question 6
Correct
Mark 1.00 out of 1.00
What is mean by stable sorting algorithm?
 a. A <u>sorting</u> algorithm is stable if it preserves the order of non-duplicate keys
 b. A <u>sorting</u> algorithm is stable if it preserves the order of duplicate keys ✓
c. A sorting algorithm is stable if it preserves the order of all keys
d. A sorting algorithm is stable if it doesn't preserver the order of duplicate keys

Your answer is correct.

The correct answer is:

A <u>sorting</u> algorithm is stable if it preserves the order of duplicate keys

Question 7
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
b. When the item is the last element in the array
$_{\odot}$ c. When the item is somewhere in the middle of the array \checkmark
d. When the item is not the array at all
Your answer is correct.
The correct answer is:
When the item is somewhere in the middle of the array
Question 8
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. Selection
b. Distribution
⊚ c. Insertion ✓
d. Extraction

Your answer is correct.

The correct answer is: Insertion

Question 9
Correct
Mark 1.00 out of 1.00
In checks the elements of a <u>list</u> , one at a time, without skipping any element.
a. Both (1) & (3)

o. Hash search
○ d. Binary search
Your answer is correct.
The correct answer is:
Linear search
10
Question 10
Mark 1.00 out of 1.00
Very slow way of sorting is
a. Bubble sort
o. Heap sort
○ d. Quick sort

Your answer is correct.

The correct answer is: Insertion sort

Question 11
Correct
Mark 1.00 out of 1.00
sort is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements in case they are unordered in n-1 passes.
a. Insertion
b. Complexity
⊚ c. Bubble ✓
O d. Selection
Your answer is correct.
The correct answer is: Bubble
Question 12
Correct Mark 1.00 and aff 1.00
Mark 1.00 out of 1.00
explain how an algorithm will perform when the input grows larger.
a. Merging
○ c. <u>Sorting</u>
od. <u>Searching</u>
Your answer is correct.
The correct answer is:

Question 13
Correct
Mark 1.00 out of 1.00
Two-way merge sort algorithm is used to sort the following elements in ascending order. 200,470,150,80,90,40,400,300,120,70 What is the order of these elements after second pass of the merge sort algorithm?
a. 40,70,80,90,120,150,200,300,400,470
b. 200,470,80,150,40,90,300,400,70,120
c. 80,150,200,470,40,90,300,400,70,120 ✓
d. 40,80,90,150,200,300,400,470,70,120
Your answer is correct.
The correct answer is:
80,150,200,470,40,90,300,400,70,120
Question 14
Correct
Mark 1.00 out of 1.00
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. 90 and 99 ✓
○ b. 89 and 94
○ c. 90 and 100
○ d. 94 and 99
Your answer is correct.
The correct answer is: 90 and 99

Question 15
Correct
Mark 1.00 out of 1.00
Which of the following is not an in-place sorting algorithm?
a. Heap sort
○ b. Quick sort
o. Selection sort
Your answer is correct.
The correct answer is:
Merge sort
← Searching
Jump to

Week10_Coding \rightarrow

Dashboard / My courses / PSPP/PUP / Experiments based on Variables, Datatypes in Python. / Weekl_Coding

Started on	Thursday, 14 March 2024, 11:15 AM
State	Finished
Completed on	Saturday, 16 March 2024, 9:14 PM
Time taken	2 days 9 hours
Marks	6.00/6.00
Grade	100.00 out of 100.00

```
Question |
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 'tloat'>

For example:

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

Answer: (penalty regime: 0%)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
a=int(input())
b=float(input())
print(a,type(a),sep=",")
print(round(b,1),type(b),sep=",")
```

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



\wedge			

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%)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

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

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

Passed all tests! 🗸



Marks for this submission: 1.00/1.00.

Question 3	
Correct	
Mark 1.00 out of 1.00	

Write a simple python program to tind the square root of a given thoating 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%)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
a=float(input())
b=a**0.5
print(round(b,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
Marks for this submission: 1.00/1.00.

```
Question 4

Correct

Mark 1.00 out of 1.00
```

Altred buys an old scooter for Rs. X and spends Rs. Y on its repairs. It he sells the scooter for Rs. Z (Z>X+Y). Write a program to help Altred 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	

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
x=int(input())
y=int(input())
z=int(input())
a=x+y
b=z-a
c=(b/a)*100
print(f"{c:.2f} is the gain percent.")
```

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

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

Correct
Marks tor this submission: 1.00/1.00.

```
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 retund 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 retund will be \$6.00.

For example:

lng	out	Resul	t				
20 20		Your	total	refund	will	be	\$7.00.

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
a=int(input())
b=int(input())
x=a*0.10
y=b*0.25
z=x+y
print(f"Your total refund will be ${z:.2f}. ")
```

	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.	~



Correct
Marks for this submission: 1.00/1.00.

```
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. It 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 tinal result(hrs) are in -ve convert that to +ve using abs() tunction

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

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

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

	Input	Expected	Got	
~	450	weekdays 10.38 weekend 0.38	weekdays 10.38 weekend 0.38	~

	Input	Expected	Got	
~	500	weekdays 10.00 weekend 0.00	weekdays 10.00 weekend 0.00	~
~	10000	weekdays 83.08 weekend 73.08	weekdays 83.08 weekend 73.08	~
~	6789	weekdays 58.38 weekend 48.38	weekdays 58.38 weekend 48.38	~

Correct
Marks for this submission: 1.00/1.00.

← Weekl_Quiz

Jump to...

Operators →

Dashboard / My courses / PSPP/PUP / Operators and Formatting Output. / Week2_Cooling

Started on	Thursday, 21 March 2024, 11:09 AM
State	Finished
Completed on	Friday, 22 March 2024, 3:11 PM
Time taken	I day 4 hours
Marks	19.00/19.00
Grade	100.00 out of 100.00

```
Question |
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 triends. He wants to distribute some chocolates to all of his triends 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 triends. Help Mr. X to buy such a packet.

Input Given:

N-No of triends

PI,P2,P3 AND P4-No of chocolates

OUTPUT:

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

SAMPLE INPUT AND OUTPUT:

5

25

12

10

9

OUTPUT

True False True False

For example:

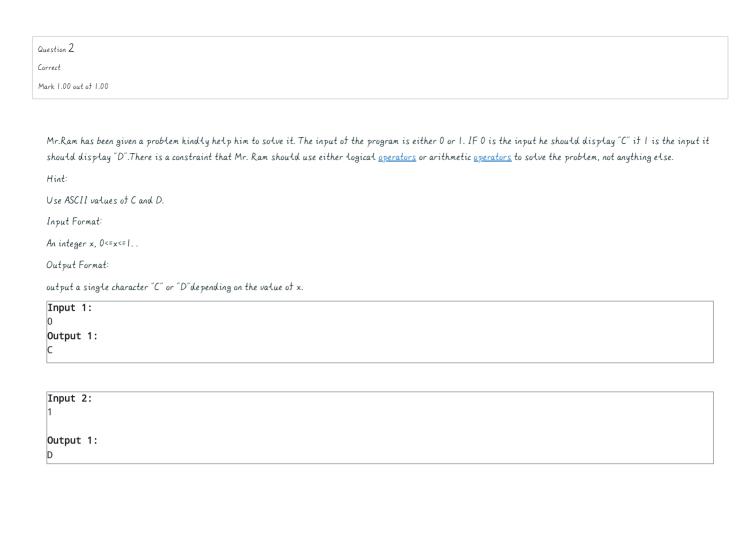
Input	Result			
5	True False True True			
25				
23				
20				
10				

Answer: (penalty regime: 0%)

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



Correct
Marks for this submission: 1.00/1.00.



For example:

Input	Result
0	С

Answer: (penalty regime: 0%)

```
1 | x=int(input())
2 | print(chr(67+x))
```

Input		Input	Expected	Got	
	~	0	С	С	~

	Input	Expected	Got	
~	1	D	D	~



Marks for this submission: 1.00/1.00.

Question 3	
Correct	
Mark 10.00 out of 10.00	

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

Sample Input:

10

20

Sample Output:

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

Answer: (penalty regime: 0%)

```
hum_widget = int(input())
num_gizoms = int(input())
widget_weight = 75
gizoms_weight = 112
total_weight = (num_widget* w
print("The total weight of al
```

	Inpu	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! 🗸



Marks for this submission: 10.00/10.00.

Question 4	
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 torm. (Hint:use python bitwise operator.

Sample Input

Sample Output:

2

Explanation:

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

For example:

Input	Result
3	2

Answer: (penalty regime: 0 %)

- 1 humber=int(input())
 2 count_once=(number & 1)+((num
 3 print(count_once)

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

Passed all tests! 🗸



Marks for this submission: 1.00/1.00.

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 tormat:

Line I has the total number of weapons

Line 2 has the total number of Soldiers.

Output Format:

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

Sample Input:

32

43

Sample Output:

False

For example:

Input	Result
32	False
43	

Answer: (penalty regime: 0%)

- 1 weapons=int(input())
 - soldier=int(input())
- 3 print(weapons%3==0 and soldie

	Input	Expected	Got	
~	32 43	False	False	~
~	273 7890	True	True	~
~	800 4590	False	False	~
~	6789 32996	True	True	~



Marks for this submission: 1.00/1.00.

Question 6

Correct

Mark 1.00 out of 1.00

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

For example:

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

Answer: (penalty regime: 0 %)

```
#deposite amount=float(input
   #balance_year_1=deposite_amc
   #balance_year_2=balance_year
4
   #balance_year_3=balance_year
   #print("Balance as of end of
   #print("Balance as of end of
6
   #print("Balance as of end of
8
   initial_rate=int(input())
   intrest_rate=0.04
   year1=initial_rate*(1+intres
10
11
   year2=year1*(1+intrest_rate)
12
   year3=year2*(1+intrest_rate)
13
   print(f"Balance as of end of
   print(f"Balance as of end of
14
15 print(f"Balance as of end of
```

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

Passed all tests! 🗸



Marks for this submission: 1.00/1.00.

Question 7
Correct
Mark 1.00 out of 1.00

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

IF Lokpaul wins print true, otherwise talse.

Sample Input

10

Sample Output

True

Explanation:

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

For example:

Input	Result
101	False

Answer: (penalty regime: 0 %)

```
num=int(input())
doll_sing=(num % 2 == 0)and(r
print(doll_sing)
```

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Question 8

Correct

Mark 1.00 out of 1.00

Note:

Dont use it-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. It a person is eligible he/she will be allowed inside.

Write a program and teed it to the system to tind 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 (it not eligible)

Sample Input

19

45

Sample Output

True

For example:

Result
False

Answer: (penalty regime: 0 %)

- 1 | age=int(input())
 2 | weight=int(input())
- 3 print(age>=18 and weight>40)

		Input	Expected	Got	
~	/	19 45	True	True	~

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

Correct
Marks tor this submission: 1.00/1.00.

Question 9

Correct

Mark 1.00 out of 1.00

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

Sample Input

100

Sample Output

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

For example:

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

Answer: (penalty regime: 0 %)

```
cost=float(input())
tax=0.05
tip=0.18
tax_amount=(cost*tax)
tip_amount=cost*tap)
total_amount=cost+tax_amount+
print(f"The tax is {tax_amour}
```

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

Passed all tests! 🗸



Marks for this submission: 1.00/1.00.

Question 10
Correct
Mark 1.00 out of 1.00

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

The last digit should be returned as a positive number.

For example,

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

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

For example:

Input	Result
197	7
-197	7

Answer: (penalty regime: 0 %)

1	<pre>digit=int(input())</pre>
2	last_digit=abs(digit)%10
3	<pre>digit=int(input()) last_digit=abs(digit)%10 print(last_digit)</pre>

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

Passed all tests! 🗸



Marks for this submission: 1.00/1.00.

← Week2_MCQ

Jump to...

Dashboard / My courses / PSPP/PUP / Algorithmic Approach: Selection control structures / Week3_coding

Started on	Thursday, 28 March 2024, 11:57 AM
State	Finished
Completed on	Friday, 29 March 2024, 8:12 PM
Time taken	l day 8 hours
Marks	9.00/10.00
Grade	90.00 out of 100.00

```
Question |
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. It 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 60 60	That's a equilateral triangle
	40 40 80	That's a isosceles triangle

Answer: (penalty regime: 0 %)

```
side1=int(input())
   side2=int(input())
  side3=int(input())
3
4 v if side1==side2 and side1==si
      print("That's a equilatera
5
6 •
  elif side1==side2 or side2==s
       print("That's a isosceles
7
8 ▼ else:
9
       print("That's a scalene t
```

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

Correct
Marks for this submission: 1.00/1.00.

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

Write a program to tind 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:

Result			
The candidate is eligible			
_			

Answer: (penalty regime: 0 %)

	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

Marks for this submission: 1.00/1.00.

```
Question 3

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 I
2010

Sample Output I
2010 is the year of the Tiger.

Sample Input 2
2020

Sample Output 2

2020 is the year of the Rat.

Answer: (penalty regime: 0 %)

```
year=int(input())
 2
   remainder=year%12
 3 v if remainder==0:
        animal="Monkey"
 4
 5 v elif remainder==1:
 6
        animal="Roosler"
 7 v elif remainder==2:
        animal="Dog
 8
 9 v elif remainder==3:
10
        animal="Pig"
11 → elif remainder==4:
12
        animal="Rat"
13 v elif remainder==5:
14
        animal="0x"
15 v elif remainder==6:
16
        animal="Tiger"
17 v elif remainder==7:
        animal="Hare"
18
19 v elif remainder==8:
20
        animal="Dragon"
21 v elif remainder==9:
22
        animal="Snake"
23 v elif remainder==10:
24
        animal="Horse"
25 •
    elif remainder==11:
26
        animal="Sheep"
27
   print(f"{year} is the year c
```

	Input	Expected	Got	
~	2010	2010 is the year of the Tiger.	2010 is the year of the Tiger.	~
~	2020	2020 is the year of the Rat.	2020 is the year of the Rat.	~

Correct
Marks for this submission: 1.00/1.00.

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

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

For example, 3, 5 and 4 torm 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. It they torm a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters.

```
Sample Input
5
Sample Output
yes
Sample Test Cases
Test Case 1
Input
3
5
4
Output
yes
Test Case 2
Input
5
8
2
```

Answer: (penalty regime: 0 %)

Output no

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

Correct
Marks for this submission: 1.00/1.00.

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

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

Sample Input 1

February

Sample Output 1

February has 28 or 29 days in it.

Sample Input 2

March

Sample Output 2

March has 31 days in it.

Sample Input 3

April

Sample Output 3

April has 30 days in it.

For example:

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

Answer: (penalty regime: 0 %)

```
month=input().capitalize()
    if month=="January"or month=
  month=="August" or month=
 2
 3 ▼
         days="31"
 4
 5 v elif month=="April" or month
days="30"
 7 v elif month=="February":
         days="28 or 29"
 8
9 v else:
10
        days="none"
11 v if days:
         print(f"{month} has {day
12
13 v else:
         print("please enter a va
14
```

	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.	~



```
Question 6

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. It the user enters a, e, i, o or u then your program should display a message indicating that the entered letter is a vowel. It 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 I

i

Sample Output I

It's a vowel.

Sample Input 2

y

Sample Output 2

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

Sample Input3

c
```

For example:

Sample Output 3

It's a consonant.

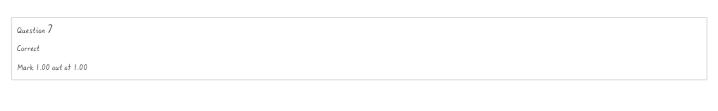
Input	Result
у	Sometimes it's a vowel Sometimes it's a consonant.
С	It's a consonant.

Answer: (penalty regime: 0 %)

	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.	~
~	е	It's a vowel.	It's a vowel.	~

		Input	Expected	Got	
[,	/	r	It's a consonant.	It's a consonant.	~

Passed all tests! 🗸



IN / OUT

Ms. Sita, the taculty 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 it 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 tirst integer corresponds to the number of problems given and the second integer corresponds to the number of problems solved.

Output Format:

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

Sample Input and Output:

Input

8

3

Output

OUT

For example:

Input	Result
8	OUT
3	

Answer: (penalty regime: 0 %)

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

Passed all tests! 🗸

```
Question 8
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.
- · Ot 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%)

```
| year=int(input())
| if year%400=0:
| print(f"{year} is a leap
| delif year%4=0:
| #print(f"{year} is a leap
| delif year%100=0:
| #print(f"{year} is a not
| delse:
| print(f"{year} is not a leap
| delif year%100=0:
| delse:
| print(f"{year} is not a leap
| delse:
| print(f"{year} is
```

	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 ditterences
```



```
Question 9

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 tollows:

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

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

Sample Test Cases

Test Case 1

Input

50

Output

100.00

Test Case 2

Input

300

Output

517.50

For example:

Input	Result
100.00	120.00
500	1035.00

Answer: (penalty regime: 0 %)

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

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

Passed all tests! 🗸

Question 10
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 reterred 10the digit in the tens place in the given number.

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

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

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

For example:

Input	Result
197	9
5	-1

Answer: (penalty regime: 0 %)

```
number=int(input())
number_str=str(number)
if len(number_str)<2:
    second_last_digit=-1
else:
    second_last_digit= int(nu
print(second_last_digit)</pre>
```

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

← Week3_mcq

Jump to...

Iteration control structures →

Dashboard / My courses / PSPP/PUP / Algorithmic Approach: Iteration control structures. / Weekt Cooling

Started on	Wednesday, 3 April 2024, 3:54 PM
State	Finished
Completed on	Wednesday, 10 April 2024, 7:41 PM
Time taken	7 days 3 hours
Overdue	5 days 3 hours
Marks	10.00/10.00
Grade	100.00 out of 100.00

Question |
Correct
Mark 1.00 out of 1.00

Write a program to find the sum of the series | + | | + | | | + | | | | + ... + n terms (n will be given as input from the user and sum will be the output)

Sample Test Cases

Test Case 1

Input

u.

Output

1234

Test Case 2

Input

6

Output

123456

Answer: (penalty regime: 0 %)

```
n=int(input())
current_term=1
sum_series=0
for i in range(n):
    sum_series+=current_term
    current_term=current_tern
print(sum_series)
```

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

Passed all tests! 🗸



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

Write a program to return the nth number in the tibonacci 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 ot the previous two numbers.

- · tirst Fibonacci number is 0,
- · second Fibonacci number is 1,
- · third Fibonacci number is I,
- · tourth Fibonacci number is 2,
- · titth 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%)

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

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

Passed all tests! 🗸



Question 3

Correct

Mark 1.00 out of 1.00

Write a program to tind 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.

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! 🗸

Question 4	
Correct	
Mark 1.00 out of 1.00	

Given a number N, tind the next pertect square greater than N.

Input Format:

Integer input from stdin.

Output Format:

Pertect square greater than N.

Example Input:

Output:

16

Answer: (penalty regime: 0%)

```
import math
2
   num=int(input())
   a=math.isqrt(num)
next=a+1
3
4
5 next_perfect_square=next**2
6 print(next_perfect_square)
```

		Input	Expected	Got	
,	/	10	16	16	~

Passed all tests! 🗸



Question 5
Correct
Mark 1.00 out of 1.00

Given an integer N, check whether N the given number can be made a pertect square atter 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 %)

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

Passed all tests! 🗸



Question 6

Correct

Mark 1.00 out of 1.00

Write a program to tind 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.

It the given number is 292, the program should return I because there is only I 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'.

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

It 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 %)

```
num=str(int(input()))
print([num.count(i) for i in
```

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

Passed all tests! 🗸



```
Question 7
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 it condition satisfies else prints No.

Example Input:

14

Output:

Yes

Example Input:

13

Output:

No

Answer: (penalty regime: 0 %)

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

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

Passed all tests! 🗸

Correct

Question 8 Correct Mark 1.00 out of 1.00

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

It 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: it the given number N is 7, the method must return 2

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

For example:

Input	Result
7	2
10	1

Answer: (penalty regime: 0 %)

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

Passed all tests! 🗸



```
Question 9
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())
 2
   temp=n
 3
    count=0
 4 while(n!=0):
     rem=n%10
 6
     n=n//10
 7
     count+=1
   n=temp
 8
   sum=0
10 v for i in range(0,count):
11
        dis=n%10
        b=dis**(count-i)
12
        sum=sum+b
13
14
        n=n//10
15 v if(sum==temp):
16
        print("Yes")
17 v else:
        print("No")
18
19
```

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

Passed all tests! 🗸

Question 10
Correct
Mark 1.00 out of 1.00

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

Write a program to tind the tactorial 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 tactorial 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 %)

Passed all tests! V



Jump to...

Strings →

Dashboard / My courses / PSPP/PUP / Experiments based on Strings and its operations. / Week5_Coding

```
Started on Tuesday, 30 April 2024, 8:40 PM

State Finished

Completed on Thursday, 9 May 2024, 10:41 AM

Time taken 8 days 14 hours

Overdue 6 days 14 hours

Marks 10.00/10.00

Grade 100.00 out of 100.00
```

```
Question |
Correct
Mark 1.00 out of 1.00
```

Assume that the given string has enough memory.

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

Sample Input 1

a2b4c6

Sample Output 1

aabbbbcccccc

Answer: (penalty regime: 0 %)

```
1 ▼ def expand_string(s):
        result = ""
 2
 3
        i = 0
        while i < len(s):</pre>
 4 ▼
 5
            char = s[i]
            i += 1
 6
            num = ""
 8 •
            while i < len(s) and</pre>
 9
                 num += s[i]
                 i += 1
10
            result += char * int
11
        return result
12
13
    s=input()
14 | print(expand_string(s))
```

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

Passed all tests! V



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

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

For example:

Input	Result
rec@123	3
	3
	1

Answer: (penalty regime: 0 %)

```
input_string=input()
count_letter=0
 2
    count_digit=0
 4
   count_special=0
 5 v for char in input_string:
 6 🔻
         if char.isdigit():
             count_digit+=1
         elif char.isalpha():
 8 🔻
 9
             count_letter+=1
10 •
         else:
11
             count_special+=1
12
    print(count_letter)
print(count_digit)
print(count_special)
```

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

Passed all tests! 🗸

```
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	
~	experience enc	xpri	xpri	~

Passed all tests! 🗸



```
Question 4

Correct

Mark 1.00 out of 1.00
```

Write a program to check it two <u>strings</u> are balanced. For example, <u>strings</u> sI and s2 are balanced it all the characters in the sI are present in s2. The character's position doesn't matter. It balanced display as "true", otherwise "talse".

For example:

Input	Result
Yn PYnative	True

Answer: (penalty regime: 0%)

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

Passed all tests! 🗸



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

Reverse a string without attecting special characters

Given a string S, containing special characters and all the alphabets, reverse the string without attecting 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 %)

```
n=input()
 2
   s=list(n)
   left,right=0,len(s)-1
 3
 4 v while left<right:
 5 🔻
        if not s[left].isalpha()
6
           left+=1
        elif not s[right].isalph
7
8
           right-=1
9 🔻
        else:
10
            s[left],s[right]=s[r
11
   string=""
            left+=1
12
13
14 🔻
   for i in s:
15
        string+=i
16
   print(string)
17
18
```

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

Passed all tests! 🗸



```
Question 6
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:

It input is "Wipro Technologies Bangalore" the tunction should return "TECHNOLOGIES"

It input is "Hello World" the tunction should return "WORLD"

It input is "Hello" the program should return "LESS"

NOTE 1: It 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	
~	Wipro Technologies Bangalore	TECHNOLOGIES	TECHNOLOGIES	~
~	Hello World	WORLD	WORLD	~
~	Hello	LESS	LESS	~

Passed all tests! 🗸

Correct

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

String should contain only the words are not palindrome.

Sample Input 1

Malayalam is my mother tongue

Sample Output 1

is my mother tongue

Answer: (penalty regime: 0%)

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

Passed all tests! 🗸



```
Question 8

Correct

Mark 1.00 out of 1.00
```

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

Input Format:

The tirst line contains S.

Output Format:

The tirst line contains EXTENSION.

The second line contains DOMAIN.

The third line contains USERNAME.

Boundary Condition:

1 <= Length of S <= 100

Example Input/Output 1:

Input:

abcd@gmail.com

Output:

com

gmail

abcd

Answer: (penalty regime: 0%)

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

Passed all tests! 🗸



Question 9
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:

tirst

second

tirst

third

second

then your program should display:

tirst

second

third

Answer: (penalty regime: 0 %)

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

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

Passed all tests! 🗸



```
Question | 0

Correct

Mark 1.00 out of 1.00
```

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

Input Format:

The tirst line contains SI.

The second line contains S2.

The third line contains N.

Output Format:

The tirst line contains the N characters present in SI which are also present in S2.

Boundary Conditions:

```
2 <= N <= 10
2 <= Length of S1, S2 <= 1000
Example Input/Output 1:
```

Input:

abcbde

cdetghbb

3

Output:

bcd

Note:

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

Answer: (penalty regime: 0%)

```
s1=input()
   s2=input()
 2
 3
   n=int(input())
 4 c=''
5 v for char in s1:
 6 •
        if char in s2 and char r
 7
             c+=char
 8 •
             if len(c)==n:
 9
                 break
10
   print(c)
11
12
13
```

	Input	Expected	Got	
~	abcbde cdefghbb 3	bcd	bcd	~

Passed all tests! 🗸



Jump to...

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

Started on	Saturday, 18 May 2024, 9:10 PM
State	Finished
Completed on	Monday, 20 May 2024, 2:54 PM
Time taken	1 day 17 hours
Marks	10.00/10.00
Grade	100.00 out of 100.00

Question |
Correct
Mark 1.00 out of 1.00

Complete the program to count trequency 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 I times

Answer: (penalty regime: 0 %)

```
h=int(input())
elements=[]

for i in range(n):
    elements.append(int(input)
process=[]

for element in elements:
    if element not in proces
        count=elements.count
    print(f"{element} oc
    process.append(element)
```

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

Passed all tests! 🗸



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

Write a Python program to check it a given <u>list</u> is strictly increasing or not. Moreover, It 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

```
List, we still consider the <u>list</u> true

Input:

n:Number of elements

List!: <u>List</u> of values

Output

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

Sample Test Case

Input

7

1

2

3

0

4

5

6
```

Answer: (penalty regime: 0%)

Output True

```
1 v def is_increasing(lst):
        return all(lst[i ] <lst[</pre>
 3
 4 ▼ def is_decreasing(lst):
 5
        return all(lst[i ] >lst[
 7 v def check_strictly_increasir
 8 🕶
        if is_increasing(lst) or
 9
            return True
        for i in range(len(lst))
10 🔻
11
            temp_lst=lst[:i ] +]
12 🔻
            if is_increasing(ten
                return True
13
14
15
        return False
16
    n=int(input())
17
18
   lst=[]
19
20 v for i in range(n):
21
        lst.append(int(input()))
22
23 v if check_strictly_increasing
24
        print("True")
25 v else:
26
        print("False")
```

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



```
Question 3

Correct

Mark 1.00 out of 1.00
```

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

Input Format

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

Output tormat

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

Example

Output:

1

Input

3

5

99

Output

0

For example:

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

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

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



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

Output is a merged array without duplicates.

Input Format

N1 - no of elements in array 1

Array elements for array 1

N2 - no of elements in array 2

Array elements for array2

Output Format

Display the merged array

Sample Input 1

5

1

2

6

9

4

2

4

5

10

Sample Output 1

1 2 3 4 5 6 9 10

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

```
Mark 1.00 out of 1.00
  Determine the tactors of a number (i.e., all positive integer values that evenly divide into a number) and then return the pth element of the <u>list</u>, sorted ascending. It
 there is no pth element, return 0.
 Example
 n = 20
 p = 3
 The tactors of 20 in ascending order are [1, 2, 4, 5, 10, 20). Using 1-based indexing, it p = 3, then 4 is returned. It p > 6, 0 would be returned.
 Constraints
  1 \le n \le 10^{15}
  1 ≤ p ≤ 109
 The tirst line contains an integer n, the number to tactor.
  The second line contains an integer p, the I-based index of the factor to return.
 Sample Case 0
  Sample Input 0
  10
 Sample Output 0
  Explanation 0
  Factoring n = 10 results in (1, 2, 5, 10). Return the p = 3^{rd} tactor, 5, as the answer.
 Sample Case 1
  Sample Input 1
  10
  5
 Sample Output 1
  Explanation 1
  Factoring n = 10 results in (1, 2, 5, 10). There are only 4 factors and p = 5, therefore 0 is returned as the answer.
 Sample Case 2
 Sample Input 2
  Sample Output 2
 Explanation 2
  Factoring n = 1 results in (1). The p = 1 st tactor of 1 is returned as the answer.
```

For example:

Question 5

Input	Result
10 3	5
10 5	0
1	1

Answer: (penalty regime: 0%)

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

Passed all tests! 🗸



Question (6
Correct	
Mark 1.00	out of 1.00
	an array ot numbers, tind the index ot the smallest array element (the pivot), tor which the sums ot all elements to the lett and to the right are equal. The may not be reordered.
Exam	ple
arr=[.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.
Constr	raints
	$3 \le n \le 10^5$
	$1 \le arr[i] \le 2 \times 10^4$, where $0 \le i \le n$
	It is guaranteed that a solution always exists.
The to	irst line contains an integer n, the size of the array arr.
Each o	of the next n lines contains an integer, arr[i], where $0 \le i \le n$.
Samp	le Case 0
Samp	le Input O
4	
1	
2	
3	
3	
Samp	le Output 0
2	
Expla	anation 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.
Samp	Le Case I
Samp	le Input I
3	
1	
2	
1	
Samp	le Output I
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 I.

For example:

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

Answer: (penalty regime: 0%)

```
n=int(input())
2 arr=[]
5 total=sum(arr)
6 left=0
7 pivot_index=-1
8 for i in range(n):
9
       right_sum=total-left-arr
if left==right_sum:
10 🔻
           pivot_index=i
11
12
           break
       left+=arr[i]
13
14 print(pivot_index)
```

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

Passed all tests! 🗸



```
Question 7
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

list! and list 2: Two lists

Output

Zipped List: List which combined both list! and list2

Sample test case

Sample input

2

1

3

5

7

2

4

6

8

Sample Output

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

```
m=int(input())
   n=int(input())
 2
 3 | lst=[]
4 ▼ for i in range(m):
        row=[int(input()) for i
 6
        lst.append(row)
   lst2=[]
 8 v for i in range(m):
        row=[int(input()) for i
10
        lst2.append(row)
11
   zip_lst=[]
12 v for i in range(m):
13
        combine_row=lst[i]+lst2[
        zip_lst.append(combine_r
14
15 print(zip_lst)
```

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



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 trom 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

I

,

2

3

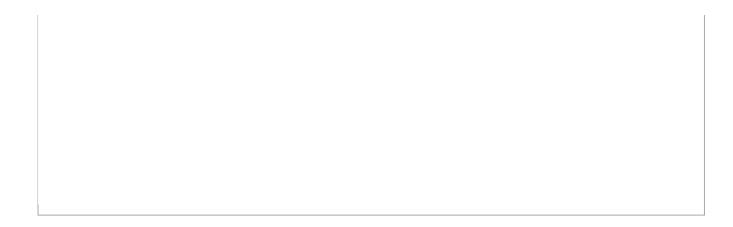
,

Output:

123

For example:

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



	Input	E:	хре	cte	d	G	oŧ			
~	5 1 2 2 3	1	2	3	4	1	2	3	4	~
	4									
~	6 1 1 2 2 3 3	1	2	3		1	2	3		~

```
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 tilling 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 2

8 9 10

```
Input

11
22
33
55
66
77
88
99
110
120
44
Output
```

ITEM to be inserted:44 Atter insertion array is:

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

Correct

```
Question 10
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 tound in a <u>list</u> and also print the total number of times it occurs in the <u>list</u>. The location starts from I.

```
For example, it there are 4 elements in the array:
5
6
5
It the element to search is 5 then the output will be:
5 is present at location 1
5 is present at location 3
5 is present 2 times in the array.
Sample Test Cases
Test Case 1
Input
4
5
6
5
7
5
Output
5 is present at location 1.
5 is present at location 3.
5 is present 2 times in the array.
```

Test Case 2

Input

5 67

80

45

97

100 50

Output

50 is not present in the array.

```
n=int(input())
 2
   elements=[]
 3 ▼
   for i in range(n):
        elements.append(int(inpu
 4
   search_ele=int(input())
 6
    count=0
 7
    location=[]
    for index,element in enumera
 8 🔻
        if element==search_ele:
10
            location.append(ind€
11
            count+=1
12 v if count>0:
13 🔻
        for locations in locatio
14
            print(f"{search_ele}
15
        print(f"{search_ele} is
16 v else:
17
        print(f"{search_ele} is
```

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

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_Coding

Started on	Sunday, 26 May 2024, 7:44 PM
State	Finished
Completed on	Tuesday, 28 May 2024, 7:28 PM
Time taken	l day 23 hours
Marks	5.00/5.00
Grade	100.00 out of 100.00

```
Question |
Correct
Mark 1.00 out of 1.00
```

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

Input Format:

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

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

Sample Input:

54
12865
26810
Sample Output:
1510
3
Sample Input:
55

12345

<u>Sample</u> Output:

12345

NO SUCH ELEMENTS

For example:

ln	pи	t	R	esu	٠ŧ		
5	4				1	5	10
1	2	8	6	5	3		
2	6	8	10				

```
arr1_size,arr2_size=map(int,
arr1=list(map(int,input().sg
arr2=list(map(int,input().sg
set1=set(arr1)
set2=set(arr2)
non_repeating=set1.symmetric
for element in non_repeating
    print(element,end=" ")
print()
print(len(non_repeating))
```

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

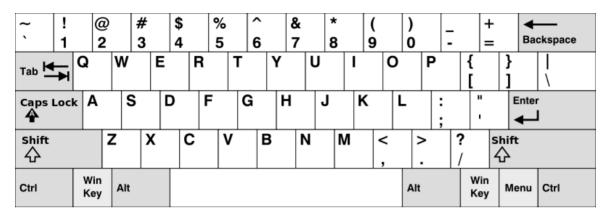


```
Question 2
Correct
Mark 1.00 out of 1.00
```

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

In the American keyboard:

- the first row consists of the characters "qwertyuiop",
- · the second row consists of the characters "asdfghjkl", and
- the third row consists of the characters "ZXCVDNM".



Example 1:

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

Example 2

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

Example 3:

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

For example:

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

```
n=int(input())
   count=0
 2
 3
    true=0
    str1="QWERTYUIOPqwertyuiop"
4
 5
    str2="ASDFGHJKLasdfghjkl"
   str3="ZXCVBNMzxcvbnm"
 6
7 v for i in range(n):
 8
        str4=input()
 9
        c, c1, c2=0, 0, 0
10 •
        for i in str4:
11 🔻
             if i in str1:
12
                 c+=1
13
             elif i in str2:
14
                 c1+=1
```

```
elif i in str3:

c2+=1

if c == len(str4) or c1
..
15 ▼
16
17 🔻
18
                    true=1
19 print(str4)
20 v if true != 1:
21 print("No words")
```

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

```
Question 3

Correct

Mark 1.00 out of 1.00
```

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

Examples:

Input: str = "01010101010"

Output: Yes

Input: str = "REC101"

Output: No

For example:

Input	Result
01010101010	Yes
010101 10101	No

Answer: (penalty regime: 0 %)

```
input_str1=input()
unique_chars=set(input_str1)
binary_chars={'0','1'}
if unique_chars<=binary_chars
    result="Yes"
else:
    result="No"
print(result)</pre>
```

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

Passed all tests! 🗸



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

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

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

```
Example 1:
```

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

Output:

1

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

For example:

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

Answer: (penalty regime: 0 %)

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

Passed all tests! 🗸



```
Question 5

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 identity 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 = "AAAAAAAAAA"
Output: ["AAAAAAAAAA"]
```

For example:

Input	Result
AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC CCCCCAAAAA

Answer: (penalty regime: 0%)

```
1 | s = input().strip()
   sequence_length = 10
    seen_sequences = set()
 3
   duplicate_sequences = set()
 5 v for i in range(len(s) - sequ
 6
       current_sequence = s[i:i
 7 🔻
       if current_sequence in se
 8
            duplicate_sequences.
 9 ▼
       else:
10
            seen_sequences.add(c
   result = list(duplicate_sequ
11
12 v for seq in result:
13
        print(seq)
```

	Input	Expected	Got	
~	AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC CCCCCAAAAA	AAAAACCCCC CCCCCAAAAA	~
~	АААААААААА	AAAAAAAAA	AAAAAAAAA	~

Passed all tests! 🗸



Jump to...

Dictionary →

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Experiments based on Dictionary and its operations.</u> / <u>Week8_Coding</u>

Started on	Thursday, 30 May 2024, 10:39 AM
State	Finished
Completed on	Thursday, 30 May 2024, 11:06 AM
Time taken	26 mins 54 secs
Marks	5.00/5.00
Grade	100.00 out of 100.00

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

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

Points Letters

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

2 D and G

3 B, C, M and P

4 F, H, V, W and Y

5 K

8 J and X

10 Q and Z

Write a program that computes and displays the Scrabble^M score for a word. Create a <u>dictionary</u> that maps from letters to point values. Then use the <u>dictionary</u> to compute the score.

A Scrabble $^{\text{\tiny{M}}}$ board includes some squares that multiply the value of a letter or the value of an entire word. We will ignore these squares in this exercise.

Sample Input

REC

Sample Output

REC is worth 5 points.

For example:

Input	Result	
REC	REC is worth 5 points.	

```
1 ▼ def scrabble_score(word):
2
3 ▼
        letter_points = {
            'A': 1, 'E': 1, 'I': 1, 'L': 1, 'N': 1,
4
            'D': 2, 'G': 2,
5
            'B': 3, 'C': 3, 'M': 3, 'P': 3,
6
            'F': 4, 'H': 4, 'V': 4, 'W': 4, 'Y': 4,
7
8
            'K': 5,
            'J': 8, 'X': 8,
9
10
            'Q': 10, 'Z': 10
        }
11
12
13
        score = sum(letter_points.get(letter.upper()
14
15
        return score
16
17
18
   word = input()
19
    score = scrabble_score(word)
20
    print(f"{word} is worth {score} points.")
21
22
```

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

Question **2**Correct Mark 1.00 out of 1.00

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

- 1.Identify the student with the highest average score
- 2.Identify the student who as the highest Assignment marks
- 3. Identify the student with the Lowest lab marks
- 4. Identify the student with the lowest average score

Note:

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

Sample input:

4

James 67 89 56

Lalith 89 45 45

Ram 89 89 89

Sita 70 70 70

Sample Output:

Ram

James Ram

Lalith

Lalith

For example:

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

```
n = int(input())
2
   d = \{\}
3
   sc = []
4
   am = []
5
   lm = []
6 •
   for i in range(n):
7
        x = input().split()
8
        d[x[0]] = [int(x[1]), int(x[2]), int(x[3])]
9
        sc.append(sum(d[x[0]])//3)
10
        am.append(int(x[2]))
        lm.append(int(x[3]))
11
```

```
13
   a2 = []
14
   a3 = []
   a4 = []
15
16 k = list(d.keys())
17 v for i in range(len(k)):
        if(sc[i] == max(sc)):
18 ▼
19
            a1.append(k[i])
21 v for i in range(len(k)):
22 ▼
        if(am[i] == max(am)):
            a2.append(k[i])
23
24
25 v for i in range(len(k)):
       if(lm[i] == min(lm)):
26 ▼
27
           a3.append(k[i])
28 v for i in range(len(k)):
      if(sc[i] == min(sc)):
29 ▼
30
            a4.append(k[i])
31
   a1.sort()
32 a2.sort()
33
   a3.sort()
34
   a4.sort()
35 v for i in a1:
        print(i,end = " ")
36
    print(" ")
37
38 ▼
    for i in a2:
        print(i,end = " ")
39
   print(" ")
40
41 • for i in a3:
        print(i,end = " ")
42
43
   print(" ")
44 v for i in a4:
        print(i,end = " ")
45
46
    print(" ")
47
48
49
```

	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	~

Correct

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

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

Examples:

Output: John

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

Sample Input:

10

John

John

Johny

Jamie

Jamie

Johny

Jack

Johny

Johny

Jackie

Sample Output:

Johny

```
1     n=int(input().strip())
```

```
∠ | VULE_COUNT-\}
3 v for i in range(n):
4
        candidate=input().strip()
5 ▼
        if candidate in vote_count:
            vote_count[candidate]+=1
6
7 🔻
        else:
8
            vote_count[candidate]=1
9
   max_votes=0
10 winner=""
11 • for candidate, votes in vote_count.items():
        if votes>max_votes or (votes==max_votes and o
12 ▼
13
            max_votes=votes
14
            winner=candidate
15 print(winner)
```

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

Correct

Question 4

Correct

Mark 1.00 out of 1.00

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

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

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

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

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

Explanation: Sorted by sum, and replaced.

Sample Input:

2

Gfg 6 7 4

Best 7 6 5

Sample Output

Gfg 17

Best 18

For example:

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

```
h=int(input())
2
   test_dict={}
3 v for i in range(n):
4
        x=input().split()
5
        key=x[0]
        values=list(map(int,x[1:]))
7
        test_dict[key]=sum(values)
8
   sorted_keys=sorted(test_dict,key=test_dict.get)
9 v for key in sorted_keys:
10
        print(key,test_dict[key])
```

	Input	Expected	Got	
~	2 Gfg 6 7 4 Best 7 6 5	Gfg 17 Best 18	Gfg 17 Best 18	~
~	2 Gfg 6 6 Best 5 5	Best 10 Gfg 12		~

Correct

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

A sentence is a string of single-space separated words where each word consists only of lowercase letters. A word is uncommon if it appears exactly once in one of the sentences, and does not appear in the other sentence.

Given two sentences s1 and s2, return a list of all the uncommon words. You may return the answer in any order.

Example 1:

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

Output: ["sweet", "sour"]

Example 2:

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

Output: ["banana"]

Constraints:

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

s1 and s2 consist of lowercase English letters and spaces.

s1 and s2 do not have leading or trailing spaces.

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

Note:

Use dictionary to solve the problem

For example:

Input			Result		
	apple apple		sweet sour	sweet	sour

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

Correct

Marks for this submission: 1.00/1.00.

← Week8_MCQ

Jump to...

Functions \rightarrow

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Functions: Built-in functions, User-defined functions, Recursive functions</u> / <u>Week9_Coding</u>

Started on	Monday, 27 May 2024, 12:15 PM
State	Finished
Completed on	Monday, 27 May 2024, 9:03 PM
Time taken	8 hours 47 mins
Marks	5.00/5.00
Grade	100.00 out of 100.00

```
Question 1
```

Mark 1.00 out of 1.00

A number is considered to be ugly if its only prime factors are 2, 3 or 5.

[1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, ...] is the sequence of ugly numbers.

Task:

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

return ugly if it is ugly, else return not ugly

Hint:

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

For example:

Test	Result
<pre>print(checkUgly(6))</pre>	ugly
<pre>print(checkUgly(21))</pre>	not ugly

Answer: (penalty regime: 0 %)

Reset answer

```
1 v def checkUgly(n):
 2 🔻
        def is_ugly(num):
 3 ▼
            if n<=0:
 4
                 return "False"
 5 ▼
            while num%2==0:
 6
                num//=2
 7 🔻
             while num%3==0:
 8
                num//=3
 9 🔻
            while num%5==0:
10
                num//=5
11
            return num==1
12
        if is_ugly(n):
13 🔻
14
            return 'ugly'
        else:
15 ▼
16
             return 'not ugly'
17
18
19
```

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

Passed all tests! <

Correct

```
Question 2
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

```
Reset answer
```

```
1 v def christmasDiscount(n):
    prime_digits={'2','3','5','7'}
    discount=sum(int(digit) for digit in str(n) i1
    return discount
```

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

Correct

```
Question 3

Correct

Mark 1.00 out of 1.00
```

Write a code to check whether product of digits at even places is divisible by sum of digits at odd place of a positive integer.

Input Format:

Take an input integer from stdin.

Output Format:

Print TRUE or FALSE.

Example Input:

1256

Output:

TRUE

Example Input:

1595

Output:

FALSE

For example:

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

Answer: (penalty regime: 0 %)

Reset answer

```
1 ▼ def productDigits(n):
2
        n_str=str(n)
3
        product_even=1
4
        sum\_odd=0
5 🔻
        for i,digit in enumerate(n_str):
6 ▼
            if (i+1)\%2==0:
                product_even*=int(digit)
7
8 🔻
            else:
9
                sum_odd+=int(digit)
10 🔻
        if sum_odd==0:
11
            return False
12
        return product_even % sum_odd==0
13
14
```

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

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

Correct

```
Question 4
```

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
```

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

Passed all tests! ✓

Correct

```
Question 5
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 v def coinChange(n):
        1=[4,3,2,1]
3
        j=0
4 ▼
        for i in 1:
5
            j+=n//i
             if n%i==n:
6 ▼
7
                 continue
8
             n%=i
            if n==0:
9 .
10
                 break
        return j
11
12
```

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

Correct

Marks for this submission: 1.00/1.00.

← Week9_MCQ

Jump to...

Searching →

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Searching techniques: Linear and Binary</u> / <u>Week10_Coding</u>

Started on	Tuesday, 21 May 2024, 7:32 PM
State	Finished
Completed on	Wednesday, 22 May 2024, 3:42 PM
Time taken	20 hours 9 mins
Marks	5.00/5.00
Grade	100.00 out of 100.00

```
Question 1
```

Mark 1.00 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 \boldsymbol{n} , the length of \boldsymbol{A} .

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

Output Format

Print peak numbers separated by space.

Sample Input

5

891026

Sample Output

10 6

For example:

Input	Result
4	12 8
12 3 6 8	

```
1 def findpeak(arr):
2
        n=len(arr)
3
        peaks=[]
4 ▼
        for i in range(n):
            if (i==0 and arr[i] >= arr[i+1]) or (i==
5 ▼
6
                peaks.append(arr[i])
7
        return peaks
8
   n=int(input())
9
   arr=list(map(int,input().split()))
   peakelement=findpeak(arr)
10
11 print(" ".join(map(str,peakelement)))
```

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

Correct

Question 2

Correct

Mark 1.00 out of 1.00

Bubble Sort is the simplest <u>sorting</u> algorithm that works by repeatedly swapping the adjacent elements if they are in wrong order. You read an <u>list</u> of numbers. You need to arrange the elements in ascending order and print the result. The <u>sorting</u> should be done using bubble sort.

Input Format: The first line reads the number of elements in the array. The second line reads the array elements one by one.

Output Format: The output should be a sorted <u>list</u>.

For example:

Input	Result
6 3 4 8 7 1 2	1 2 3 4 7 8
5 4 5 2 3 1	1 2 3 4 5

Answer: (penalty regime: 0 %)

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

	Input	E	хр	ec	tec	ı		G	ot					
~	6 3 4 8 7 1 2	1	2	3	4	7	8	1	2	3	4	7	8	~
~	6 9 18 1 3 4 6	1	3	4	6	9	18	1	3	4	6	9	18	~
~	5 4 5 2 3 1	1	2	3	4	5		1	2	3	4	5		~

Passed all tests! ✓

Correct

```
Question 3
```

Mark 1.00 out of 1.00

An list 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 list

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

0124653

Sample Output

Yes

For example:

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

```
1 | h=int(input())
   nums=list(map(int,input().split()))
3
   k=int(input())
4 v def has_sum_to_k(n, nums, k):
5
       num_set=set()
6 ▼
       for num in nums:
7 ▼
           if k-num in num_set:
                return "Yes"
8
9
           num_set.add(num)
10
        return "No"
11 | print(has_sum_to_k(n, nums, k))
```

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

Question 4

Correct

Mark 1.00 out of 1.00

Write a Python program for binary search.

For example:

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

Answer: (penalty regime: 0 %)

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

Passed all tests! 🗸

Correct

Question ${\bf 5}$

Correct

Mark 1.00 out of 1.00

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

For example:

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

Answer: (penalty regime: 0 %)

	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...