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Started on Friday, 12 April 2024, 8:43 PM

State Finished

Completed on Friday, 12 April 2024, 8:46 PM

Time taken 3 mins 25 secs

Grade 10.00 out of 10.00 (100%)

Question **1**

Correct

Mark 1.00 out of 1.00

Who developed the Python language?

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

Your answer is correct.

The correct answer is:
Guido Van Rossum

Question **2**

Correct

Mark 1.00 out of 1.00

What will be the output of the following code snippet?

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

- ☐ a. str
- ☒ b. float ✓
- ☐ c. int
- ☐ d. obj

Your answer is correct.

The correct answer is:
float

Question 3

Correct

Mark 1.00 out of 1.00

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

Answer: ✓

The correct answer is: float(input())

Question 4

Correct

Mark 1.00 out of 1.00

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

```
var = 10
```

```
print(type(var))
```

```
var = "Hello"
```

```
print(type(var))
```

- ☐ a. int and int
- ☐ b. float and str
- ☐ c. No output
- ☒ d. int and str ✓

Your answer is correct.

The correct answer is:
int and str

Question 5

Correct

Mark 1.00 out of 1.00

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

- ☐ a. .cpp
- ☒ b. .py ✓
- ☐ c. .p
- ☐ d. .python

Your answer is correct.

The correct answer is:
.py

Question **6**

Correct

Mark 1.00 out of 1.00

What will be the output of the following code snippet?

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

- ☐ a. 3 1
3 1
- ☐ b. 1 3
3 1
- ☐ c. No output
- ☒ d. 3 1 ✓
1 3

Your answer is correct.

The correct answer is:

3 1

1 3

Question **7**

Correct

Mark 1.00 out of 1.00

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

- ☐ a. Key
- ☒ b. Indentation ✓
- ☐ c. Parenthesis
- ☐ d. Curly brace

Your answer is correct.

The correct answer is:

Indentation

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. class str
- ☐ b. '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 declarations is incorrect in python language?

- ☒ a. x,y,z,p = 5000, 6000, 7000, 8000 ✓
- ☐ b. x y z p = 5000 6000 7000 8000
- ☐ c. x_y_z_p = 5,000,000
- ☐ d. xyzp = 5,000,000

Your answer is correct.

The correct answer is:

x,y,z,p = 5000, 6000, 7000, 8000

Question **10**

Correct

Mark 1.00 out of 1.00

Which of the following [functions](#) is a built-in function in python language?

- ☐ a. val()
- ☒ b. print() ✓
- ☐ c. printf()
- ☐ d. scanf()

Your answer is correct.

The correct answer is:

print()

◀ [Basics of Python](#)

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Started on	Tuesday, 9 April 2024, 5:03 PM
State	Finished
Completed on	Sunday, 14 April 2024, 11:23 PM
Time taken	5 days 6 hours
Overdue	3 days 6 hours
Marks	17.00/19.00
Grade	89.47 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

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

Sample Input

3

Sample Output:

2

Explanation:

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

For example:

Input	Result
3	2

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 d1=n & 1
3 n=n>>1
4 d2=n & 1
5 n= n>>1
6 d3=n & 1
7 n=n>>1
8 d4=n&1
9 n=n>>1
10 print(d1+d2+d3+d4)
11
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

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

IF Lokpaul wins print true, otherwise false.

Sample Input

10

Sample Output

True

Explanation:

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

For example:

Input	Result
100	False

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 if n>0 and n<100:
3     n=n%2
4     if n%2==0:
5         print("True")
6     else:
7         print("False")
8 else:
9     print("False")
10
11
12
```

	Input	Expected	Got	
✓	56	True	True	✓
✓	100	False	False	✓
✓	-2	False	False	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Note:

Dont use if-else. [Operators](#) alone must be used .

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

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

Input Format:

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

Output Format:

Display True(IF ELIGIBLE)

Display False (if not eligible)

Sample Input

19

45

Sample Output

True

For example:

Input	Result
18 40	False

Answer: (penalty regime: 0 %)

```
1 age=int(input())
2 weight=int(input())
3 print(age>=18 and weight>40)
4
```

	Input	Expected	Got	
✓	19 45	True	True	✓
✓	18 40	False	False	✓
✓	18 42	True	True	✓

	Input	Expected	Got	
✓	16 45	False	False	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

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

The last digit should be returned as a positive number.

For example,

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

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

For example:

Input	Result
197	7
-197	7

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 if n>=0:
3     lastdigit=n%10
4     print(lastdigit)
5 else:
6     n=abs(n)
7     lastdigit=n%10
8     print(lastdigit )
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **5**

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 %)

```
1 widgets=int(input())
2 gizmos=int(input())
3 weight_widgets=75*widgets
4 weight_gizmos=112*gizmos
5 totalweight=weight_widgets+weight_gizmos
6 print("The total weight of all these widgets and gizmos is",totalweight,"grams.")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 10.00/10.00.

Question **6**

Correct

Mark 1.00 out of 1.00

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

Input format:

Line 1 has the total number of weapons
Line 2 has the total number of Soldiers.

Output Format:

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

Sample Input:

32
43

Sample Output:

False

For example:

Input	Result
32 43	False

Answer: (penalty regime: 0 %)

```
1 weapons=int(input())
2 soldiers=int(input())
3 if weapons%3==0 and soldiers%2==0:
4     print("True")
5 else:
6     print("False")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 7

Incorrect

Mark 0.00 out of 1.00

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

For example:

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

Answer: (penalty regime: 0 %)

```
1 amount=int(input())
2 rate_interest=0.04
3 interest=(amount*12*0.04)/100
4 balance_year1=amount+interest
5 balance_year2=balance_year1+interest
6 balance_year3=balance_year2+interest
7 balance1=("%.2f"%balance_year1)
8 balance2=("%.2f"%balance_year2)
9 balance3=("%.2f"%balance_year3)
10 print("Balance as of end of Year 1:$",balance1,sep='')
11 print("Balance as of end of Year 2:$",balance2,sep='')
12 print("Balance as of end of Year 3:$",balance3,sep='')
```

	Input	Expected	Got	
✗	10000	Balance as of end of Year 1: \$10400.00. Balance as of end of Year 2: \$10816.00. Balance as of end of Year 3: \$11248.64.	Balance as of end of Year 1:\$10048.00 Balance as of end of Year 2:\$10096.00 Balance as of end of Year 3:\$10144.00	✗
✗	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 1:\$20096.00 Balance as of end of Year 2:\$20192.00 Balance as of end of Year 3:\$20288.00	✗

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

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

Question 8

Correct

Mark 1.00 out of 1.00

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

Input Given:

N-No of friends
P1,P2,P3 AND P4-No of chocolates

OUTPUT:

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

SAMPLE INPUT AND OUTPUT:

5
25
12
10
9
OUTPUT
True False True False

For example:

Input	Result
5	True False True True
25	
23	
20	
10	

Answer: (penalty regime: 0 %)

```
1 N=int(input())
2 P1=int(input())
3 P2=int(input())
4 P3=int(input())
5 P4=int(input())
6 print(P1%N==0,P2%N==0,P3%N==0,P4%N==0)
```

	Input	Expected	Got	
✓	5 25 23 20 10	True False True True	True False True True	✓

	Input	Expected	Got	
✓	4 23 24 21 12	False True False True	False True False True	✓
✓	8 64 8 16 32	True True True True	True True True True	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 9

Correct

Mark 1.00 out of 1.00

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

Hint:

Use ASCII values of C and D.

Input Format:

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

Output Format:

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

Input 1:

0

Output 1:

C

Input 2:

1

Output 1:

D

For example:

Input	Result
0	C

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 print(n and "D" or "C")
```

	Input	Expected	Got	
✓	0	C	C	✓
✓	1	D	D	✓

Passed all tests! ✓

Correct

Question **10**

Incorrect

Mark 0.00 out of 1.00

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

Sample Input

100

Sample Output

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

For example:

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

Answer: (penalty regime: 0 %)

```
1 cost=int(input())
2 tax=0.05*cost
3 TAX=( "%.2f"%tax)
4 tip=0.18*cost
5 TIP=( "%.2f"%tip)
6 total= cost+TIP+TAX
7 Totalamount=( "%.2f" %total)
8 print("The tax is {} and the tip is {}, making thr total".format(TAX,TIP,Totalamount))
9
```

	Input	Expected	Got	
✗	100	The tax is 5.00 and the tip is 18.00, making the total 123.00	***Run error*** Traceback (most recent call last): File "__tester__.python3", line 6, in <module> total= cost+TIP+TAX ~~~~~ TypeError: unsupported operand type(s) for +: 'int' and 'str'	✗

Testing was aborted due to error.
Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

[◀ Week2_MCQ](#)

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Started on	Wednesday, 17 April 2024, 9:28 PM
State	Finished
Completed on	Monday, 22 April 2024, 7:26 AM
Time taken	4 days 9 hours
Overdue	2 days 9 hours
Marks	8.00/10.00
Grade	80.00 out of 100.00

Question **1**
Correct
Mark 1.00 out of 1.00

Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third.
For example, 3, 5 and 4 form a Pythagorean triple, since $3^2 + 4^2 = 25 = 5^2$
You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters.

Sample Input

3
5
4

Sample Output

yes

Sample Test Cases

Test Case 1

Input

3
5
4

Output

yes

Test Case 2

Input

5
8
2

Output

no

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 b=int(input())
3 c=int(input())
4 if a*a + b*b==c*c or a*a + c*c==b*b or b*b + c*c== a*a:
5     print("yes")
6 else:
7     print("no")
8
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Incorrect

Mark 0.00 out of 1.00

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

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

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

Sample Test Cases

Test Case 1

Input

50

Output

100.00

Test Case 2

Input

300

Output

517.50

For example:

Input	Result
100.00	120.00
500	1035.00

Answer: (penalty regime: 0 %)

```

1 unit=int(input())
2 if unit<=199:
3     cost=unit*1.20
4 elif unit<=399:
5     cost=unit*1.50
6 elif unit<=599:
7     cost=unit*1.80
8 else:
9     cost=unit*2.00
10 if cost>400:
11     if cost>=100:
12         surcharge=cost + 0.15
13         cost=cost + surcharge
14 print(cost)
15

```

	Input	Expected	Got	
✗	50	100.00	60.0	✗

Testing was aborted due to error.
Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

Question 3

Correct

Mark 1.00 out of 1.00

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

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

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

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

For example:

Input	Result
197	9
5	-1

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 if n>=10:
3     a=n%10
4     a=n//10
5     b=a%10
6     print(b)
7 elif -9<n<9:
8     print("-1")
9 else :
10    n=abs(n)
11    a=n%10
12    a=n//10
13    b=a%10
14    print(b)
15
16
17
```

	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.

Question **4**

Correct

Mark 1.00 out of 1.00

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

Sample Input 1

i

Sample Output 1

It's a vowel.

Sample Input 2

y

Sample Output 2

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

Sample Input3

c

Sample Output 3

It's a consonant.

For example:

Input	Result
y	Sometimes it's a vowel... Sometimes it's a consonant.
c	It's a consonant.

Answer: (penalty regime: 0 %)

```
1 a=input()
2 if a=='a'or a=='e'or a=='i' or a=='o' or a=='u':
3     print("It's a vowel.")
4 elif a=='y':
5     print("Sometimes it's a vowel... Sometimes it's a consonant.")
6 else:
7     print("It's a consonant.")
8
```

	Input	Expected	Got	
✓	i	It's a vowel.	It's a vowel.	✓
✓	y	Sometimes it's a vowel... Sometimes it's a consonant.	Sometimes it's a vowel... Sometimes it's a consonant.	✓
✓	c	It's a consonant.	It's a consonant.	✓
✓	e	It's a vowel.	It's a vowel.	✓
✓	r	It's a consonant.	It's a consonant.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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 %)

```
1 a=input()
2 if a=="January" or a=="March" or a=="May" or a=="July" or a=="August" or a=="October" or a=="December":
3     print(a,"has 31 days in it.")
4 elif a=="February":
5     print(a,"has 28 or 29 days in it.")
6 elif a=="April" or a=="June" or a=="September" or a=="November" :
7     print(a,"has 30 days in it.")
8 else:
9     print("Enter a valid month name")
```

	Input	Expected	Got	
✓	February	February has 28 or 29 days in it.	February has 28 or 29 days in it.	✓
✓	March	March has 31 days in it.	March has 31 days in it.	✓
✓	April	April has 30 days in it.	April has 30 days in it.	✓
✓	May	May has 31 days in it.	May has 31 days in it.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **6**

Incorrect

Mark 0.00 out of 1.00

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

Year Animal

2000 Dragon

2001 Snake

2002 Horse

2003 Sheep

2004 Monkey

2005 Rooster

2006 Dog

2007 Pig

2008 Rat

2009 Ox

2010 Tiger

2011 Hare

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

Sample Input 1

2010

Sample Output 1

2010 is the year of the Tiger.

Sample Input 2

2020

Sample Output 2

2020 is the year of the Rat.

Answer: (penalty regime: 0 %)

```
1 | iqbal lavade ka bal
2 |
```

Syntax Error(s)

```
File "__tester__.python3", line 1
    iqbal lavade ka bal
    ^^^^^^
```

SyntaxError: invalid syntax

Incorrect

Marks for this submission: 0.00/1.00.

Question 7

Correct

Mark 1.00 out of 1.00

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

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

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

Sample Input 1

1900

Sample Output 1

1900 is not a leap year.

Sample Input 2

2000

Sample Output 2

2000 is a leap year.

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 if n%4==0 and n%100!=0 or n%400==0:
3     print(n,"is a leap year.")
4 else:
5     print(n,"is not a leap year.")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **8**

Correct

Mark 1.00 out of 1.00

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

Marks in Maths ≥ 65

Marks in Physics ≥ 55

Marks in Chemistry ≥ 50

Or

Total in all three subjects ≥ 180

Sample Test Cases

Test Case 1

Input

70

60

80

Output

The candidate is eligible

Test Case 2

Input

50

80

80

Output

The candidate is eligible

Test Case 3

Input

50

60

40

Output

The candidate is not eligible

For example:

Input	Result
70 60 80	The candidate is eligible

Answer: (penalty regime: 0 %)

```

1 m=int(input())
2 p=int(input())
3 c=int(input())
4 total= m+p+c
5 if m>=65 and p>=55 and c>=50:
6     print("The candidate is eligible")
7 elif total>=180:
8     print("The candidate is eligible")
9 else:
10    print("The candidate is not eligible")
11

```

	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	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 9

Correct

Mark 1.00 out of 1.00

A triangle can be classified based on the lengths of its sides as equilateral, isosceles or scalene. All three sides of an equilateral triangle have the same length. An isosceles triangle has two sides that are the same length, and a third side that is a different length. If all of the sides have different lengths then the triangle is scalene.

Write a program that reads the lengths of the three sides of a triangle from the user. Then display a message that states the triangle's type.

Sample Input 1

60

60

60

Sample Output 1

That's a equilateral triangle

Sample Input 2

40

40

80

Sample Output 2

That's a isosceles triangle

Sample Input 3

50

60

70

Sample Output 3

That's a scalene triangle

For example:

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

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **10**

Correct

Mark 1.00 out of 1.00

IN / OUT

Ms. Sita, the faculty handling programming lab for you is very strict. Your seniors have told you that she will not allow you to enter the week's lab if you have not completed atleast half the number of problems given last week. Many of you didn't understand this statement and so they requested the good programmers from your batch to write a program to find whether a student will be allowed into a week's lab given the number of problems given last week and the number of problems solved by the student in that week.

Input Format:

Input consists of 2 integers.

The first integer corresponds to the number of problems given and the second integer corresponds to the number of problems solved.

Output Format:

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

Sample Input and Output:

Input

8

3

Output

OUT

For example:

Input	Result
8	OUT
3	

Answer: (penalty regime: 0 %)

```
1 problems=int(input())
2 solved=int(input())
3 if solved>=problems/2:
4     print("IN")
5 else:
6     print("OUT")
```


	Input	Expected	Got	
✓	8 3	OUT	OUT	✓
✓	8 5	IN	IN	✓
✓	20 9	OUT	OUT	✓
✓	50 31	IN	IN	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[◀ Week3_mcq](#)

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[Iteration control structures ▶](#)

[Dashboard](#) / [My courses](#) / [PSPP/PUP](#) / [Algorithmic Approach: Iteration control structures](#) / [Week4 Coding](#)

Started on	Monday, 15 April 2024, 5:35 PM
State	Finished
Completed on	Sunday, 21 April 2024, 11:59 PM
Time taken	6 days 6 hours
Overdue	4 days 6 hours
Marks	4.00/10.00
Grade	40.00 out of 100.00

Question 1

Incorrect

Mark 0.00 out of 1.00

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

Assumption: The input number will be a positive integer number ≥ 1 and ≤ 25000 .

For e.g.

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

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

For example:

Input	Result
292	2
1015	3

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 i=1
3 while n!=0:
4     if 1<=n<=25000:
5         a=n%10
6         a=n//10
7         b
8
9
```

	Input	Expected	Got	
✗	292	2	***Run error*** Traceback (most recent call last): File "__tester__.python3", line 7, in <module> b NameError: name 'b' is not defined	✗

Testing was aborted due to error.

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

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

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

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

NOTE: Fibonacci series looks like –

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

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

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

For example:

Input	Result
1	0
4	2
7	8

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 a=-1
3 b=1
4 for i in range(1,n+1):
5     c=a+b
6     a=b
7     b=c
8 print(c)
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1.00

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

Input Format:

Single Integer input.

Output Format:

Output displays Yes if condition satisfies else prints No.

Example Input:

14

Output:

Yes

Example Input:

13

Output:

No

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

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

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

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

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

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

For example:

Input	Result
7	2
10	1

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 i=2
3 flag=0
4 for i in range(2,n):
5     if n%i==0:
6         flag=1
7         break
8 if flag==1:
9     print("1")
10 else:
11     print("2")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Incorrect

Mark 0.00 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 %)

```

1 |count_input=int(input())
2 |cal_input=count_input
3 |count=0
4 |while count_input:
5 |    count_input=cal_input/10
6 |    count++
7 |while count:
8 |    cal_input
9 |while n!=0:
10 |    n=n//10
11 |    rem=n%10
12 |    count=count+rem
13 |print(count)fa
14 |
15 |

```

Syntax Error(s)

File "__tester__.python3", line 6

count++

^

SyntaxError: invalid syntax

Incorrect

Marks for this submission: 0.00/1.00.

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

Write a program to find the sum of the series 1 +11 + 111 + 1111 + . . . + n terms (n will be given as input from the user and sum will be the output)

Sample Test Cases

Test Case 1

Input

4

Output

1234

Test Case 2

Input

6

Output

123456

Answer: (penalty regime: 0 %)

```
1 | n=int(input())
2 |
```

	Input	Expected	
✗	4	1234	✗
✗	6	123456	✗

Some hidden test cases failed, too.
Your code must pass all tests to earn any marks. Try again.

Incorrect
Marks for this submission: 0.00/1.00.

Question **7**
Not answered
Mark 0.00 out of 1.00

Given an integer N, check whether N the given number can be made a perfect square after adding to it.

Input Format:

Single integer input.

Output Format:

Yes or No.

Example Input:

24

Output:

Yes

Example Input:

26

Output:

No

For example:

Input	Result
24	Yes

Answer: (penalty regime: 0 %)

1

Question 8

Correct

Mark 1.00 out of 1.00

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

$5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$

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

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

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

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

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

Assumptions for this program:

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

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

For example:

Input	Result
5	120
4	24
9	362880

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 fact=1
3 i=1
4 while i<=n:
5     fact=fact*i
6     i=i+1
7 print(fact)
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **9**

Incorrect

Mark 0.00 out of 1.00

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

Input Format:

Integer input from stdin.

Output Format:

Perfect square greater than N.

Example Input:

10

Output:

16

Answer: (penalty regime: 0 %)

```
1 | n=int(input())
2 |
```

	Input	Expected	
✗	10	16	✗

Some hidden test cases failed, too.
Your code must pass all tests to earn any marks. Try again.

Incorrect

Marks for this submission: 0.00/1.00.

Question **10**

Not answered

Mark 0.00 out of 1.00

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

Assumption: The input number will be a positive integer number ≥ 1 and ≤ 25000 .

Some examples are as below.

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

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

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

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

For example:

Input	Result
292	1
1015	2
108	3
22	0

Answer: (penalty regime: 0 %)

1 | |

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Started on	Wednesday, 29 May 2024, 11:45 PM
State	Finished
Completed on	Friday, 31 May 2024, 11:45 PM
Time taken	2 days
Marks	8.00/10.00
Grade	80.00 out of 100.00

Question **1**

Correct

Mark 1.00 out of 1.00

Write a program that takes as input a string (sentence), and returns its second word in uppercase.

For example:

If input is "Wipro Technologies Bangalore" the function should return "TECHNOLOGIES"

If input is "Hello World" the function should return "WORLD"

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

NOTE 1: If input is a sentence with less than 2 words, the program should return the word "LESS".

NOTE 2: The result should have no leading or trailing spaces.

For example:

Input	Result
Wipro Technologies Bangalore	TECHNOLOGIES
Hello World	WORLD
Hello	LESS

Answer: (penalty regime: 0 %)

```

1 s=input()
2 s=s.upper()
3 s=s.split()
4 if len(s)>=2:
5     print(s[1])
6 else:
7     print("LESS")

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Not answered

Mark 0.00 out of 1.00

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

first

second

first

third

second

then your program should display:

first

second

third

Answer: (penalty regime: 0 %)

1 | |

Question **3**

Correct

Mark 1.00 out of 1.00

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

For example:

Input	Result
rec@123	3 3 1

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

String should contain only the words are not palindrome.

Sample Input 1

Malayalam is my mother tongue

Sample Output 1

is my mother tongue

Answer: (penalty regime: 0 %)

```
1 s=input()
2 s=s.lower()
3 s=s.split()
4 for i in s:
5     if i!=i[::-1]:
6         print(i,end=' ')
7
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

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

Input Format:

The first line contains *S*.

Output Format:

The first line contains *EXTENSION*.

The second line contains *DOMAIN*.

The third line contains *USERNAME*.

Boundary Condition:

1 ≤ Length of *S* ≤ 100

Example Input/Output 1:

Input:

abcd@gmail.com

Output:

com

gmail

abcd

For example:

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

Answer: (penalty regime: 0 %)

```

1 s=input()
2 s1=s.split('@')
3 s2=s1[1].split('.',1)
4 print(s2[1])
5 print(s2[0])
6 print(s1[0])
7

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 6

Incorrect

Mark 0.00 out of 1.00

Assume that the given string has enough memory.

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

Sample Input 1

a2b4c6

Sample Output 1

aabbbbcccccc

Answer: (penalty regime: 0 %)

```
1 s=input()
2 temp=0
3 x=""
4 for i in s:
5     if i.isalpha():
6         print(x*temp,end='')
7         temp=0
8         x=i
9     else:
10        temp=temp*10+ int(i)
11        print(x*temp,end='')
```

	Input	Expected	Got	
✗	a2b4c6	aabbbbcccccc	aaaabbbbbbbcccccc	✗
✗	a12b3d4	aaaaaaaaaabbddddd	aaaaaaaaaaaaaaaaaaaaaabbddddd	✗

Some hidden test cases failed, too.
Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

Question 7

Correct

Mark 1.00 out of 1.00

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

Input Format:

The first line contains S1.
The second line contains S2.
The third line contains N.

Output Format:

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

Boundary Conditions:

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

Example Input/Output 1:

Input:
abcbde
cdefghbb
3

Output:
bcd

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

Answer: (penalty regime: 0 %)

```
1 s1=input()
2 s2=input()
3 n=int(input())
4 a=""
5 for i in s1:
6     if i in s2 and i not in a:
7         a=a+i
8     if len(a)>=n:
9         break
10 print(a)
```

	Input	Expected	Got	
✓	abcbde cdefghbb 3	bcd	bcd	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **8**
Correct
Mark 1.00 out of 1.00

Given two [Strings](#) s1 and s2, remove all the characters from s1 which is present in s2.

Constraints

1<= string length <= 200

Sample Input 1

experience
enc

Sample Output 1

xpri

Answer: (penalty regime: 0 %)

```
1 s1=input()
2 s2=input()
3 for i in s1:
4     s3=s1.replace(s2[0],'')
5     s4=s3.replace(s2[1],'')
6     s5=s4.replace(s2[2],'')
7 print(s5)
```

	Input	Expected	Got	
✓	experience enc	xpri	xpri	✓

Passed all tests! ✓

Correct
Marks for this submission: 1.00/1.00.

Question 9

Correct

Mark 1.00 out of 1.00

Write a program to check if two [strings](#) are balanced. For example, [strings](#) s1 and s2 are balanced if all the characters in the s1 are present in s2. The character's position doesn't matter. If balanced display as "true" ,otherwise "false".

For example:

Input	Result
Yn PYnative	True

Answer: (penalty regime: 0 %)

```
1 s1=input()
2 s2=input()
3 print(s1 in s2)
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **10**

Correct

Mark 1.00 out of 1.00

Reverse a string **without affecting special characters**

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

Input:
A&B

Output:
B&A

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

For example:

Input	Result
A&x#	x&A#

Answer: (penalty regime: 0 %)

```
1 s=input()
2 x=''
3 for i in s:
4     if i.isalpha():
5         x=x+i
6 x=x[::-1]
7 y=0
8 for i in s:
9     if i.isalpha():
10        print(x[y],end='')
11        y=y+1
12 else:
13        print(i,end='')
```

	Input	Expected	Got	
✓	A&B	B&A	B&A	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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Started on	Monday, 10 June 2024, 6:41 PM
State	Finished
Completed on	Monday, 10 June 2024, 11:59 PM
Time taken	5 hours 17 mins
Marks	4.00/10.00
Grade	40.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Output is a merged array without duplicates.

Input Format

N1 - no of elements in array 1

Array elements for array 1

N2 - no of elements in array 2

Array elements for array2

Output Format

Display the merged array

Sample Input 1

5

1

2

3

6

9

4

2

4

5

10

Sample Output 1

1 2 3 4 5 6 9 10

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 a=[]
3 for i in range(n):
4     t=int(input())
5     a.append(t)
6 m=int(input())
7 b=[]
8 for i in range(m):
9     r=int(input())
10    b.append(r)
11 c=a+b
12 d=[]
13 for i in c:
14     if i not in d:
15         d.append(i)
16 d.sort()
17 for i in d:
18     print(i,end=' ')
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

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

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

5
6
5
7

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

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

Sample Test Cases

Test Case 1

Input

4
5
6
5
7
5

Output

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

Test Case 2

Input

5
67
80
45
97
100
50

Output

50 is not present in the array.

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1.00

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

Sample Test Cases

Test Case 1

Input

7
23
45
23
56
45
23
40

Output

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

Answer: (penalty regime: 0 %)

```
1 a=[]
2 n=int(input())
3 for i in range(n):
4     temp=int(input())
5     a.append(temp)
6 b=[]
7 for i in a:
8     if i not in b:
9         b.append(i)
10 for i in b:
11     print(i,"occurs",a.count(i),"times")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Incorrect

Mark 0.00 out of 1.00

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

Input Format

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

Output format

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

Example

Input

1

3

1

3

5

4

Output:

1

Input

1

3

1

3

5

99

Output

0

For example:

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

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 while n!=0:
3     t=int(input())
4     a=[]
5     count=0
6     for i in range(t):
7         a.append(int(input()))
8     k=int(input())
9     for i in range(t):
10        for j in range(t):
11            if i!=j and a[i]-a[j]==k or a[j]-a[i]==0:
12                count+=1
13                break
14 if count!=0:
```

```
14 count = 0
15     print("1")
16 else:
17     print("0")
18
```

	Input	Expected	Got	
✖	1 3 1 3 5 4	1	***Run error*** Traceback (most recent call last): File "__tester__.python3", line 3, in <module> t=int(input()) ^^^^^ EOFError: EOF when reading a line	✖

Testing was aborted due to error.
Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

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

Input:

n : Number of elements
List1: [List](#) of values

Output

Print "True" if [list](#) is strictly increasing or decreasing else print "False"

Sample Test Case

Input

7
1
2
3
0
4
5
6

Output

True

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 a=[]
3 for i in range(n):
4     t=int(input())
5     a.append(t)
6 b=a.sort()
7 if b==a:
8     print("False")
9 else:
10    print("True")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 6

Incorrect

Mark 0.00 out of 1.00

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

Input:

m : row size

n: column size

list1 and list 2 : Two lists

Output

Zipped List : List which combined both list1 and list2

Sample test case

Sample input

2

2

1

3

5

7

2

4

6

8

Sample Output

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

Answer: (penalty regime: 0 %)

```
1 m=int(input())
2 n=int(input())
3 a=[]
4 b=[]
5 m1=m
6 for i in range(m):
7     r=[]
8     for j in range(n):
9         r.append(int(input()))
10
11
```

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

Some hidden test cases failed, too.

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

Incorrect

Marks for this submission: 0.00/1.00.

Question **7**

Not answered

Mark 0.00 out of 1.00

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

Sample Test Cases

Test Case 1

Input

1
3
4
5
6
7
8
9
10
11
2

Output

ITEM to be inserted:2
After insertion array is:

1
2
3
4
5
6
7
8
9
10
11

Test Case 2

Input

11
22
33
55
66
77
88
99
110
120
44

Output

ITEM to be inserted:44
After insertion array is:

11
22
33
44
55
66
77
88
99
110

120

Answer: (penalty regime: 0 %)

1

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

Example

$n = 20$

$p = 3$

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

Constraints

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

$$1 \leq p \leq 10^9$$

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

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

Sample Case 0

Sample Input 0

10

3

Sample Output 0

5

Explanation 0

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

Sample Case 1

Sample Input 1

10

5

Sample Output 1

0

Explanation 1

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

Sample Case 2

Sample Input 2

1

1

Sample Output 2

1

Explanation 2

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

For example:

Input	Result
10 3	5
10 5	0
1 1	1

Answer: (penalty regime: 0 %)

1



//

Question 9

Not answered

Mark 0.00 out of 1.00

Given an array of numbers, find the index of the smallest array element (the pivot), for which the sums of all elements to the left and to the right are equal. The array may not be reordered.

Example

arr=[1,2,3,4,6]

- the sum of the first three elements, $1+2+3=6$. The value of the last element is 6.
- Using zero based indexing, arr[3]=4 is the pivot between the two subarrays.
- The index of the pivot is 3.

Constraints

- $3 \leq n \leq 10^5$
- $1 \leq \text{arr}[i] \leq 2 \times 10^4$, where $0 \leq i < n$
- It is guaranteed that a solution always exists.

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

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

Sample Case 0

Sample Input 0

4
1
2
3
3

Sample Output 0

2

Explanation 0

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

Sample Case 1

Sample Input 1

3
1
2
1

Sample Output 1

1

Explanation 1

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

For example:

Input	Result
4 1 2 3 3	2

Input	Result
3	1
1	
2	
1	

Answer: (penalty regime: 0 %)

1 |

Question **10**
Not answered
Mark 0.00 out of 1.00

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

Input Format:

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

Second line take n Integers which is inputs of array.

Output Format:

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

Example Input:

5
1
2
2
3
4

Output:

1 2 3 4

Example Input:

6
1
1
2
2
3
3

Output:

1 2 3

For example:

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

Answer: (penalty regime: 0 %)

1

[◀ Week6_MCQ](#)

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//

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Started on	Thursday, 6 June 2024, 1:07 PM
State	Finished
Completed on	Saturday, 8 June 2024, 1:07 PM
Time taken	2 days
Marks	3.00/5.00
Grade	60.00 out of 100.00

Question 1

Incorrect

Mark 0.00 out of 1.00

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

Examples:

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

Output: 2

Explanation:
Pairs with sum K(= 13) are {(5, 8), (6, 7), (6, 7)}.
Therefore, distinct pairs with sum K(= 13) are { (5, 8), (6, 7) }.
Therefore, the required output is 2.

For example:

Input	Result
1,2,1,2,5 3	1
1,2 0	0

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 a=[]
3 for i in range(n):
4     temp=int(input())
5     a.append(temp)
6 b=tuple(a)
7
8
```

	Input	Expected	Got	
✗	5,6,5,7,7,8 13	2	***Run error*** Traceback (most recent call last): File "__tester__.python3", line 1, in <module> n=int(input()) ^^^^^^^^^^^^^ ValueError: invalid literal for int() with base 10: '5,6,5,7,7,8'	✗

Testing was aborted due to error.
Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

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

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

Example 1:

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

Output:

1

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

For example:

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

Answer: (penalty regime: 0 %)

```
1 s=input()
2 s1=input()
3 count=0
4 for i in s1:
5     if i in s:
6         count+=1
7 print(count)
8
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1.00

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

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

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

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

Example 1:

Input: s = "AAAAACCCCCAAAAACCCCCAAAAGGTTT"

Output: ["AAAAACCCC", "CCCCAAAAA"]

Example 2:

Input: s = "AAAAAAAAAAAA"

Output: ["AAAAAAAAA"]

For example:

Input	Result
AAAAACCCCCAAAAACCCCCAAAAGGTTT	AAAAACCCC CCCCAAAAA

Answer: (penalty regime: 0 %)

```
1 s=input()
2 check=set()
3 repeat=set()
4 for i in range(len(s)- 9 ):
5     sliced=s[i:i+10]
6     tpl=tuple(sliced)
7     if tpl in check:
8         repeat.add(tpl)
9     else:
10        check.add(tpl)
11 for i in repeat:
12     print(''.join(i))
```

	Input	Expected	Got	
✓	AAAAACCCCCAAAAACCCCCAAAAGGTTT	AAAAACCCC CCCCAAAAA	AAAAACCCC CCCCAAAAA	✓
✓	AAAAAAAAAAAAA	AAAAAAAAA	AAAAAAAAA	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

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

Examples:

Input: str = "01010101010"

Output: Yes

Input: str = "REC101"

Output: No

For example:

Input	Result
01010101010	Yes
010101 10101	No

Answer: (penalty regime: 0 %)

```
1 |str=input()
2 |s={'0','1'}
3 |p=set(str)
4 |if s==p or p=='0' or p=='1':
5 |    print("Yes")
6 |else:
7 |    print("No")
8 |
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **5**
Incorrect
Mark 0.00 out of 1.00

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

Example 1:

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

Example 2:

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

For example:

Input	Result
1 3 4 4 2	4

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 a=[]
3 for i in range(n):
4     t=int(input())
5     a.append(t)
6 print(a)
7 b=set(a)
8 for i in a:
9     if i not in b:
10        print(i)
```

	Input	Expected	Got	
✗	1 3 4 4 2	4	***Run error*** Traceback (most recent call last): File "__tester__.python3", line 1, in <module> n=int(input()) ^^^^^^^^^^^ ValueError: invalid literal for int() with base 10: '1 3 4 4 2'	✗

Testing was aborted due to error.
Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

[◀ Week7_MCQ](#)

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Started on	Wednesday, 19 June 2024, 1:41 AM
State	Finished
Completed on	Wednesday, 19 June 2024, 9:26 PM
Time taken	19 hours 44 mins
Marks	5.00/5.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

complete function to implement coin change making problem i.e. finding the minimum number of coins of certain denominations that add up to given amount of money.

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

Input Format:
Integer input from stdin.

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

Example Input:

16

Output:
4

Explanation:
We need only 4 coins of value 4 each

Example Input:

25

Output:
7

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

Answer: (penalty regime: 0 %)

Reset answer

```
1 def coinChange(n):
2     c=0
3     c=c+n//4
4     n%=4
5     c=c+n//3
6     n%=3
7     c=c+n//2
8     n%=2
9     c=c+n//1
10    return c
```

	Test	Expected	Got	
✓	print(coinChange(16))	4	4	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

An automorphic number is a number whose square ends with the number itself.

For example, 5 is an automorphic number because $5*5 = 25$. The last digit is 5 which same as the given number.

If the number is not valid, it should display "Invalid input".

If it is an automorphic number display "Automorphic" else display "Not Automorphic".

Input Format:

Take a Integer from Stdin Output Format: Print Automorphic if given number is Automorphic number,otherwise Not Automorphic Example input: 5 Output: Automorphic Example input: 25 Output: Automorphic Example input: 7 Output: Not Automorphic

For example:

Test	Result
print(automorphic(5))	Automorphic

Answer: (penalty regime: 0 %)

Reset answer

```
1 def automorphic(n):
2     square=n*n
3     strn=str(n)
4     str_square=str(square)
5     if str_square.endswith(strn):
6         return "Automorphic"
7     else:
8         return "Not Automorphic"
```

	Test	Expected	Got	
✓	print(automorphic(5))	Automorphic	Automorphic	✓
✓	print(automorphic(7))	Not Automorphic	Not Automorphic	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

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

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

Task:

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

return ugly if it is ugly, else return not ugly

Hint:

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

For example:

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

Answer: (penalty regime: 0 %)

Reset answer

```
1 def checkUgly(n):
2     while n%2==0:
3         n//=2
4     while n%3==0:
5         n//=3
6     while n%5==0:
7         n//=5
8     if n==1:
9         return "ugly"
10    else:
11        return "not ugly"
12
13
```

	Test	Expected	Got	
✓	print(checkUgly(6))	ugly	ugly	✓
✓	print(checkUgly(21))	not ugly	not ugly	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

An e-commerce company plans to give their customers a special discount for Christmas. They are planning to offer a flat discount. The discount value is calculated as the sum of all the prime digits in the total bill amount.

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

Constraints

1 <= orderValue< 10e100000

Input

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

Output

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

Example Input

578

Output

12

For example:

Test	Result
print(christmasDiscount(578))	12

Answer: (penalty regime: 0 %)

Reset answer

```
1 def christmasDiscount(n):
2     s=0
3     for i in str(n):
4         if i in '2357':
5             s+=int(i)
6     return s
```

	Test	Expected	Got	
✓	print(christmasDiscount(578))	12	12	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 5

Correct

Mark 1.00 out of 1.00

Given a number with maximum of 100 digits as input, find the difference between the sum of odd and even position digits.

Input Format:
Take a number in the form of String from stdin.

Output Format:
Print the difference between sum of even and odd digits

Example input:
1453

Output:
1

Explanation:
Here, sum of even digits is $4 + 3 = 7$
sum of odd digits is $1 + 5 = 6$.
Difference is 1.
Note that we are always taking absolute difference

Answer: (penalty regime: 0 %)

Reset answer

```
1 def differenceSum(n):
2     s=str(n)
3     e=0;o=0
4     for i in range(len(s)):
5         if i%2==0:
6             e=e+int(s[i])
7         else:
8             o=o+int(s[i])
9     return abs(e-o)
10
```

	Test	Expected	Got	
✓	print(differenceSum(1453))	1	1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◀ Week9_MCQ

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Searching ►

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Started on	Wednesday, 19 June 2024, 9:27 PM
State	Finished
Completed on	Wednesday, 19 June 2024, 10:22 PM
Time taken	55 mins 35 secs
Marks	2.00/5.00
Grade	40.00 out of 100.00

Question **1**
Not answered
Mark 0.00 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, [list\[i\]](#).
The third line contains integer k.

Output Format

Print Yes or No.

Sample Input

7
0 1 2 4 6 5 3
1

Sample Output

Yes

For example:

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

Answer: (penalty regime: 0 %)

1 |

Question **2**

Correct

Mark 1.00 out of 1.00

To find the frequency of numbers in a [list](#) and display in sorted order.

Constraints:

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

Input:

1 68 79 4 90 68 1 4 5

output:

1 2

4 2

5 1

68 2

79 1

90 1

For example:

Input	Result
4 3 5 3 4 5	3 2 4 2 5 2

Answer: (penalty regime: 0 %)

```
1 def frequency(a):
2     fr={}
3     for i in a:
4         if i in fr:
5             fr[i]+=1
6         else:
7             fr[i]=1
8     sort=sorted(fr.items())
9     return sort
10 arr=list(map(int,input().split()))
11 freq_list=frequency(arr)
12 for number,freq in freq_list:
13     print(number,freq)
14
```

	Input	Expected	Got	
✓	4 3 5 3 4 5	3 2 4 2 5 2	3 2 4 2 5 2	✓
✓	12 4 4 4 2 3 5	2 1 3 1 4 3 5 1 12 1	2 1 3 1 4 3 5 1 12 1	✓
✓	5 4 5 4 6 5 7 3	3 1 4 2 5 3 6 1 7 1	3 1 4 2 5 3 6 1 7 1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1.00

Write a Python program to sort a [list](#) of elements using the merge sort algorithm.

For example:

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

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 b=input()
3 c=b.split()
4 d=list(c)
5 d.sort()
6 print(*d,sep=" ")
```

	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.

Question 4

Incorrect

Mark 0.00 out of 1.00

Given an [list](#), find peak element in it. A peak element is an element that is greater than its neighbors.

An element $a[i]$ is a peak element if

$A[i-1] \leq A[i] \geq A[i+1]$ for middle elements. $[0 < i < n-1]$

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

$A[i] \geq A[i+1]$ for first element $[i=0]$

Input Format

The first line contains a single integer n , the length of A .

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

Output Format

Print peak numbers separated by space.

Sample Input

5

8 9 10 2 6

Sample Output

10 6

For example:

Input	Result
4 12 3 6 8	12 8

Answer: (penalty regime: 0 %)

```

1 def find_peak(arr):
2     n=len(arr)
3     peaks=[]
4     if n==1:
5         return arr[0]
6     if arr[0]>=arr[1]:
7         peaks.append(arr[0])
8     for i in range(1,n):
9         if arr[i-1]<=arr[i] and arr[i]>=arr[i+1]:
10            peaks.append(arr[i])
11     if arr[n-1]>= arr[n-2]:
12         peaks.append(arr[n-1])
13     return peaks
14 peaks=find_peak(arr)
15 print(*peaks)

```

	Input	Expected	Got	
✗	7 15 7 10 8 9 4 6	15 10 9 6	***Run error*** Traceback (most recent call last): File "__tester__.python3", line 14, in <module> peaks=find_peak(arr) ^^^ NameError: name 'arr' is not defined	✗

Testing was aborted due to error.

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

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

Question 5

Incorrect

Mark 0.00 out of 1.00

Given an listof integers, sort the array in ascending order using the *Bubble Sort* algorithm above. Once sorted, print the following three lines:

1. [List](#) is sorted in numSwaps swaps., where numSwaps is the number of swaps that took place.
2. First Element: firstElement, the *first* element in the sorted [list](#).
3. Last Element: lastElement, the *last* element in the sorted [list](#).

For example, given a worst-case but small array to sort: a=[6,4,1]. It took 3 swaps to sort the array. Output would be

Array is sorted in 3 swaps.

First Element: 1

Last Element: 6

Input Format

The first line contains an integer,n , the size of the [list](#) a .
The second line contains n, space-separated integers a[i].

Constraints

- $2 \leq n \leq 600$
- $1 \leq a[i] \leq 2 \times 10^6$.

Output Format

You must print the following three lines of output:

1. [List](#) is sorted in numSwaps swaps., where numSwaps is the number of swaps that took place.
2. First Element: firstElement, the *first* element in the sorted [list](#).
3. Last Element: lastElement, the *last* element in the sorted [list](#).

Sample Input 0

3
1 2 3

Sample Output 0

[List](#) is sorted in 0 swaps.
First Element: 1
Last Element: 3

For example:

Input	Result
3 3 2 1	List is sorted in 3 swaps. First Element: 1 Last Element: 3
5 1 9 2 8 4	List is sorted in 4 swaps. First Element: 1 Last Element: 9

Answer: (penalty regime: 0 %)

```
1 def bubblesort(a):
2     n=len(a)
3     n_swaps=0
4     for i in range(n):
5         for j in range(n-1):
6             if a[j]>a[j+1]:
7                 a[j],a[j+1]=a[j+1],a[j]
8                 n_swaps+=1
9     return n_swaps
10 n=int(input())
11 a=list(map(int,input().split()))
12 n_swaps=bubblesort(a)
13 print("List is sorted in {} swaps.".format(n_swaps))
14 print("First Element:",a[0])
15 print("Last Element",a[-1])
```

	Input	Expected	Got	
✖	3 3 2 1	List is sorted in 3 swaps. First Element: 1 Last Element: 3	List is sorted in 3 swaps. First Element: 1 Last Element 3	✖
✖	5 1 9 2 8 4	List is sorted in 4 swaps. First Element: 1 Last Element: 9	List is sorted in 4 swaps. First Element: 1 Last Element 9	✖

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

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

[◀ Week10_MCQ](#)

Jump to...

Sorting ▶

[Dashboard](#) / [My courses](#) / [PSPP/PUP](#) / [Algorithmic Approach: Selection control structures](#) / [Week3 mcq](#)

Started on Wednesday, 17 April 2024, 9:02 PM

State Finished

Completed on Wednesday, 17 April 2024, 9:27 PM

Time taken 25 mins 20 secs

Grade 11.00 out of 15.00 (73.33%)

Question 1

Correct

Mark 1.00 out of 1.00

Correct syntax of writing 'simple if' statement is _____

- ☒ a. **if condition :** ✓
statements
- ☐ b. **if (condition)**
statements
- ☐ c. **if condition**
statements
- ☐ d. **if condition --**
statements

Your answer is correct.

The correct answer is:

if condition :
statements

Question **2**

Correct

Mark 1.00 out of 1.00

What will be the output for the following code?

if 1-1:

 print("python")

else:

 print("0 is false")

- ☒ a. 0 is false ✓
- ☐ b. python
- ☐ c. Error

Your answer is correct.

The correct answer is:

0 is false

Question **3**

Incorrect

Mark 0.00 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. Hi
 Hello
- ☐ b. Hi
 Know Program
- ☐ c. Hello
 Know Program
- ☒ d. Hello ✗

Your answer is incorrect.

The correct answer is:

Hi
Hello

Question 4

Incorrect

Mark 0.00 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. Aero
REC
REC-Aero
- ☐ b. REC-AERO
- ☐ c. All the Above
- ☒ d. REC ✗
REC-AERO

Your answer is incorrect.

The correct answer is:

REC-AERO

Question **5**

Correct

Mark 1.00 out of 1.00

What does the arithmetic operator % do?

- ☐ a. Finds the sum of two numbers
- ☐ b. Finds the product of two numbers
- ☒ c. Finds the remainder on dividing two numbers ✓
- ☐ d. Finds the quotient on dividing two numbers

Your answer is correct.

The correct answer is:

Finds the remainder on dividing two numbers

Question **6**

Correct

Mark 1.00 out of 1.00

Which of the following options correctly prints the phrase “Hurry Up!!”?

- ☐ a. `print_sentence(Hurry Up!!!)`
- ☐ b. `printf(“Hurry Up!!”)`
- ☒ c. `print(“Hurry Up!!”)` ✓
- ☐ d. `print(Hurry Up!!!)`

Your answer is correct.

The correct answer is:

`print(“Hurry Up!!”)`

Question **7**

Correct

Mark 1.00 out of 1.00

What is the output of the given below program?

```
if 1 + 3 == 7:
```

```
    print("Hello")
```

```
else:
```

```
    print("Know Program")
```

- ☒ a. Know Program ✓
- ☐ b. Compiled Successfully, No Output.
- ☐ c. Error
- ☐ d. Hello

Your answer is correct.

The correct answer is:

Know Program

Question 8

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code.

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

- ☐ a. REC
- ☒ b. OPEN-ELECTIVE ✖
- ☐ c. No output
- ☐ d. REC
OPEN-ELECTIVE

Your answer is incorrect.

The correct answer is:

No output

Question 9

Correct

Mark 1.00 out of 1.00

With what extension are the python [files](#) saved?

- ☒ a. .py ✔
- ☐ b. .pyn
- ☐ c. .python
- ☐ d. .p

Your answer is correct.

The correct answer is:

.py

Question **10**

Correct

Mark 1.00 out of 1.00

_____ is an empty statement in Python.

- ☒ a. pass ✓
- ☐ b. Jump
- ☐ c. None
- ☐ d. Empty

Your answer is correct.

The correct answer is:

pass

Question **11**

Correct

Mark 1.00 out of 1.00

What is the output

```
a, b, c = 1, 3, 5
```

```
if a + b + c:
```

```
    print("Hello")
```

```
else:
```

```
    print("Know Program")
```

- ☐ a. Compiled Successfully, No Output.
- ☒ b. Hello ✓
- ☐ c. Know Program
- ☐ d. Error

Your answer is correct.

The correct answer is:

Hello

Question 12

Correct

Mark 1.00 out of 1.00

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

```
x = 0
```

```
a = 5
```

```
b = 5
```

```
if a > 0:
```

```
    if b < 0:
```

```
        x = x + 5
```

```
    elif a > 5:
```

```
        x = x + 4
```

```
    else:
```

```
        x = x + 3
```

```
else:
```

```
    x = x + 2
```

```
print(x)
```

- ☐ a. 0
- ☐ b. 4
- ☒ c. 3 ✓
- ☐ d. 2

Your answer is correct.

The correct answer is:

3

Question **13**

Correct

Mark 1.00 out of 1.00

Python supports _____ types of control structures.

- ☐ a. 4
- ☐ b. 1
- ☒ c. 3 ✓
- ☐ d. 2

Your answer is correct.

The correct answer is:

3

Question **14**

Correct

Mark 1.00 out of 1.00

what will be the output for the following question?

a, b = 12, 5

if a + b:

 print('True')

else:

 print('False')

- ☐ a. False
- ☐ b. Error
- ☒ c. True ✓

Your answer is correct.

The correct answer is:

True

Question **15**

Incorrect

Mark 0.00 out of 1.00

```
if(x=-1):
```

```
    print("present")
```

```
else:
```

```
    print("absent")
```

- ☐ a. present
- ☐ b. absent
- ☐ c. Runtime Error
- ☒ d. compilation error ✖

Your answer is incorrect.

The correct answer is:

present

◀ [Selection control structures](#)

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[Week3_coding](#) ▶

[Dashboard](#) / [My courses](#) / [PSPP/PUP](#) / [Operators and Formatting Output](#) / [Week2_MCQ](#)

Started on	Sunday, 14 April 2024, 1:08 AM
State	Finished
Completed on	Sunday, 14 April 2024, 1:27 AM
Time taken	18 mins 53 secs
Grade	13.00 out of 15.00 (86.67%)

Question **1**

Correct

Mark 1.00 out of 1.00

What is the value of the expression

```
print(100 / 25)
print(100//25)
```

- ☐ a. 4.0
4.0
- ☐ b. 4.0
4.00
- ☐ c. 4
4
- ☒ d. 4.0 ✓
4

Your answer is correct.

The correct answer is:

4.0

4

Question **2**

Correct

Mark 1.00 out of 1.00

What is the output of the following expression?

z=2**z**=3****print(z)**

- ☐ a. 0
- ☐ b. Error
- ☒ c. 8 ✓
- ☐ d. 3

Your answer is correct.

The correct answer is:

8

Question **3**

Correct

Mark 1.00 out of 1.00

Which is the following is an Arithmetic operator in Python?

1. // (floor division) operator
2. & (binary and) operator
3. ~ (navigation) operator
4. >> (right shift) operator

- ☐ a. 2
- ☒ b. 1 ✓
- ☐ c. 3
- ☐ d. 4

Your answer is correct.

The correct answer is:

1

Question **4**

Correct

Mark 1.00 out of 1.00

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

- ☒ a. **5var** ✓
- ☐ b. **var_name**
- ☐ c. **_var**
- ☐ d. **var11**

Your answer is correct.

The correct answer is:

5var

Question **5**

Correct

Mark 1.00 out of 1.00

What is the output of the following code

```
print(bool(0), bool(3.14159), bool(-3), bool(1.0+1j))
```

- ☐ a.
 - True True False True
- ☒ b.
 - False True True True ✓
- ☐ c.
 - False True False True
- ☐ d.
 - True True False True

Your answer is correct.

The correct answer is:

- False True True True

Question **6**

Correct

Mark 1.00 out of 1.00

What is the output of the following code

```
x = 4
```

```
y = 10
```

```
print(x % y)
```

- ☐ a. 6
- ☐ b. 1
- ☒ c. 4 ✓
- ☐ d. 10

Your answer is correct.

The correct answer is:

4

Question 7

Incorrect

Mark 0.00 out of 1.00

State the output of the following code.

```
num1 = '10'
```

```
num2 = '20'
```

```
sum = num1 + num2
```

```
print(sum)
```

- ☒ a. 1020 ✖
- ☐ b. Error
- ☐ c. 10
- ☐ d. 30

Your answer is incorrect.

The correct answer is:

Error

Question 8

Correct

Mark 1.00 out of 1.00

What is the value of the expression $1+2**3*4+12*((100+4)*10-200//10)$?

- ☐ a. 12493
- ☐ b. -23679
- ☐ c. -24568
- ☒ d. 12273 ✔

Your answer is correct.

The correct answer is:

12273

Question **9**

Correct

Mark 1.00 out of 1.00

Which of the following type of Python operator will only print True or False in output when we use it in our program?

- ☐ a. Arithmetic Operator
- ☐ b. Assignment Operator
- ☐ c. Membership Operator
- ☒ d. Comparison Operator ✓

Your answer is correct.

The correct answers are:

Membership Operator,
Comparison Operator

Question **10**

Correct

Mark 1.00 out of 1.00

What is the output of the following code

```
x = 1j
```

```
#display x:
```

```
print(x)
```

```
#display the data type of x:
```

```
print(type(x))
```

- ☐ a. 1j.0
<class 'float'>
- ☐ b. 1
<class 'int'>
- ☐ c. 1j
<class 'object'>
- ☒ d. 1j ✓
<class 'complex'>

Your answer is correct.

The correct answer is:

1j
<class 'complex'>

Question **11**

Correct


Mark 1.00 out of 1.00

What is the output of the following code

```
x = ["apple", "banana", "cherry"]
```

```
#display the data type of x:
```

```
print(type(x))
```

- ☐ a. `<class 'int'>`
- ☐ b. `<class 'float'>`
- ☒ c.  `<class 'list'>`
- ☐ d. `<class 'complex'>`

Your answer is correct.

The correct answer is:

`<class 'list'>`

Question **12**

Correct

Mark 1.00 out of 1.00

What is the two's complement of -44?

- ☒ a. 11010100 ✓
- ☐ b. 10110011
- ☐ c. 1011011
- ☐ d. 11101011

Your answer is correct.

The correct answer is:

11010100

Question **13**

Correct

Mark 1.00 out of 1.00

What is the output of the following code

x = 5

y = 3

print(x == y)

- ☐ a. Error
- ☐ b. 5==3
- ☒ c. False ✓
- ☐ d. True

Your answer is correct.

The correct answer is:

False

Question **14**

Incorrect

Mark 0.00 out of 1.00

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

- ☐ a. Error
- ☒ b. 5 ✗
- ☐ c. 5.5
- ☐ d. 5.0

Your answer is incorrect.

The correct answer is:

Error

Question **15**

Correct

Mark 1.00 out of 1.00

What will be the value of x in the following Python expression, if the result of that expression is 2?

`x>>2`

- ☐ a. 4
- ☒ b. 8 ✓
- ☐ c. 1
- ☐ d. 2

Your answer is correct.

The correct answer is:

8

[◀ Operators](#)

Jump to...

[Week2_Coding ▶](#)

[Dashboard](#) / [My courses](#) / [PSPP/PUP](#) / [Experiments based on Strings and its operations.](#) / [Week5 MCQ](#)

Started on Thursday, 2 May 2024, 1:05 PM

State Finished

Completed on Thursday, 2 May 2024, 1:29 PM

Time taken 24 mins 37 secs

Grade 13.00 out of 15.00 (86.67%)

Question **1**

Correct

Mark 1.00 out of 1.00

What is the output of the following code?

```
str1="vijay"
```

```
for i in str1:
```

```
    print(i, end="")
```

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

Your answer is correct.

The correct answer is:

vijay

Question **2**

Incorrect

Mark 0.00 out of 1.00

What will be the output of the following code?

```
a = 'ab'
```

```
b = 4
```

```
print(a*b)
```

Answer:



The correct answer is: abababab

Question **3**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code?

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

- ☒ a. i i i i i... ✖
- ☐ b. a r v j a y a k u m a r
- ☐ c. None
- ☐ d. arvjayakumar

Your answer is incorrect.

The correct answer is:

None

Question **4**

Correct

Mark 1.00 out of 1.00

What is the output of the following code?

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

- ☒ a. Ab Cd Ef ✔
- ☐ b. None of the mentioned
- ☐ c. Ab cd eF
- ☐ d. Ab cd ef

Your answer is correct.

The correct answer is:

Ab Cd Ef

Question **5**

Correct

Mark 1.00 out of 1.00

What is the output of the following code?

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

- ☒ a. 'r' ✓
- ☐ b. None of the above
- ☐ c. ramukayajiv
- ☐ d. vijayakuma

Your answer is correct.

The correct answer is:

'r'

Question **6**

Correct

Mark 1.00 out of 1.00

Which of the following will give "Vijay" as output?

```
str1="John,Vijay,Aryan"
```

- ☒ a. `print(str1[-11:-6])` ✓ Slicing takes place at one index position less than the given second index position of the string. So,second index position will be $-7+1=-6$.
- ☐ b. `print(str1[-11:-7])`
- ☐ c. `print(str1[-7:-12])`
- ☐ d. `print(str1[-7:-11])`

Your answer is correct.

The correct answer is:

`print(str1[-11:-6])`

Question **7**

Correct

Mark 1.00 out of 1.00

What will be the output of below Python code?

```
str1="Application"  
str2=str1.replace('a','A')  
print(str2)
```

Answer: Application 

replace() function in string is used here to replace all the existing "a" by "A" in the given string.

The correct answer is: ApplicAtion


Question **8**

Correct

Mark 1.00 out of 1.00

What is the output of the following Code?

```
str1="123456789"  
print(str1[2:6:2])
```

Answer: 35 

The correct answer is: 35


Question **9**

Correct

Mark 1.00 out of 1.00

What is the output of the following code?

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

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

Your answer is correct.

The correct answer is:

01234

Question **10**

Correct

Mark 1.00 out of 1.00

What will be the output of below Python code?

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

Answer: 

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

The correct answer is: format

Question **11**

Correct

Mark 1.00 out of 1.00

What is the output of the following Code?

```
print(ord('B'))
```

Answer: 

The correct answer is: 66

Question **12**

Correct

Mark 1.00 out of 1.00

What arithmetic [operators](#) cannot be used with [strings](#) in Python?

- ☐ a. +
- ☐ b. *
- ☐ c. All of the mentioned
- ☒ d. -

Your answer is correct.

The correct answer is:

-

Question **13**

Correct

Mark 1.00 out of 1.00

What is the output of the following code?

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

- ☐ a. ['Wh', 't will h', 've so will']
- ☐ b. What will have so will
- ☐ c. ['What', 'will', 'have', 'so', 'will']
- ☒ d. Wh t will h ✓ split() will use 'a' as the delimiter. It'll create partition at 'a', thus split() return an array L, which is in ['Wh', 't will h', 've so will']. For loop will print the elements of the [list](#).

Your answer is correct.

The correct answer is:

Wh t will h ve so will

Question **14**

Correct

Mark 1.00 out of 1.00

What is the output of the following Code?

```
print(chr(69))
```

Answer: E



The correct answer is: E

Question **15**

Correct

Mark 1.00 out of 1.00

What will be the output of the following code?

```
a = '2'
b = '1'
print(a+b)
```

Answer: 21



The correct answer is: 21

◀ [Strings](#)

Jump to...

[Week5_Coding](#) ▶

[Dashboard](#) / [My courses](#) / [PSP/PUP](#) / [Experiments based on Variables, Datatypes in Python](#) / [Week1_Coding](#)

Started on	Thursday, 14 March 2024, 1:45 PM
State	Finished
Completed on	Sunday, 14 April 2024, 1:05 AM
Time taken	30 days 11 hours
Marks	6.00/6.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Write a program to convert [strings](#) to an integer and float and display its type.

Sample Input:

10
10.9

Sample Output:

10,<class 'int'>
10.9,<class 'float'>

For example:

Input	Result
10	10,<class 'int'>
10.9	10.9,<class 'float'>

Answer: (penalty regime: 0 %)

```
1 a=input()
2 b=input()
3 a=int(a)
4 b=float(b)
5 print(a,type(a),sep=",")
6 print(round(b,1),type(b),sep=",")
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

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

Sample Input:

10000

Sample Output:

16000

For example:

Input	Result
10000	16000

Answer: (penalty regime: 0 %)

```
1 basicsalary=int(input())
2 da=0.4*basicsalary
3 rent=0.2*basicsalary
4 gross=basicsalary+da+rent
5 print(gross)
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **3**
Correct
Mark 1.00 out of 1.00

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

Sample Input:

8.00

Sample Output:

2.828

For example:

Input	Result
14.00	3.742

Answer: (penalty regime: 0 %)

```
1 n=float(input())
2 sq=n**0.5
3 print("%.3f"%sq)
```

	Input	Expected	Got	
✓	8.00	2.828	2.828	✓
✓	14.00	3.742	3.742	✓
✓	4.00	2.000	2.000	✓
✓	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

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

Input Format:

The first line contains the Rs X

The second line contains Rs Y

The third line contains Rs Z

Sample Input:

10000

250

15000

Sample Output:

46.34 is the gain percent.

For example:

Input	Result
45500 500 60000	30.43 is the gain percent.

Answer: (penalty regime: 0 %)

```
1 cost=int(input())
2 repairs=int(input())
3 cp=cost+repairs
4 sp=int(input())
5 gain=sp-cp
6 gainpercent=(gain*100)/cp
7 gainpercent("%.2f"%gainpercent)
8 print(gainpercent,"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.	✓
✓	5000 0 7000	40.00 is the gain percent.	40.00 is the gain percent.	✓
✓	12500 5000 18000	2.86 is the gain percent.	2.86 is the gain percent.	✓

Passed all tests! ✓

Correct

Marks for 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 refund that will be received for returning those containers. Format the output so that it includes a dollar sign and always displays exactly two decimal places.

Sample Input

10
20

Sample Output

Your total refund will be \$6.00.

For example:

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

Answer: (penalty regime: 0 %)

```
1 smallcontainers=int(input())
2 largecontainers=int(input())
3 refund_small=0.10
4 refund_large=0.25
5 total=(smallcontainers*refund_small)+(largecontainers*refund_large)
6 totalrefund("%.2f"%total)
7 print("Your total refund will be $",totalrefund,sep='')
8
9
10
```

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

Passed all tests! ✓

Correct

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. If the salary paid for him is given, write a program to find the number of hours he has worked on weekdays and weekends.

Hint:

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

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

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

Sample Input:

450

Sample Output:

weekdays 10.38

weekend 0.38

For example:

Input	Result
450	weekdays 10.38 weekend 0.38

Answer: (penalty regime: 0 %)

```
1 salary=int(input())
2 weekdayrate=50
3 weekendrate=80
4 if salary>=500:
5     x=(salary-500)/130
6     weekendhours=x
7     weekdayhours=x+10
8 else:
9     x=abs((salary-500)/130)
10    weekendhours=x
11    weekdayhours=abs(x+10)
12 print("weekdays", "%.2f"%weekdayhours)
13 print("weekend", "%.2f"%weekendhours)
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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Started on Sunday, 9 June 2024, 1:49 PM

State Finished

Completed on Sunday, 9 June 2024, 2:12 PM

Time taken 22 mins 46 secs

Grade 13.00 out of 15.00 (86.67%)

Question **1**

Correct

Mark 1.00 out of 1.00

Fill in the blanks with same word in both places

```
>>> import _____  
>>> list1 = [1,2,3,4,5]  
>>> list2 = _____copy(list1)  
>>> list2
```

- ☐ a. Math
- ☐ b. Pickle
- ☒ c. Copy ✓

Your answer is correct.

The correct answer is:

Copy

Question **2**

Correct

Mark 1.00 out of 1.00

Find the output?

```
list1 = list('REC_CSE_ECE')
```

```
print('r' not in list1)
```

- ☐ a. False
- ☐ b. true
- ☒ c. True ✓
- ☐ d. false

Your answer is correct.

The correct answer is:

True

Question **3**

Incorrect

Mark 0.00 out of 1.00

Suppose list1 is [3, 4, 5, 20, 5], what is list1.index(5)?

- ☒ a. 4 ✖
- ☐ b. 1
- ☐ c. -3

Your answer is incorrect.

The correct answer is:

-3

Question **4**

Correct

Mark 1.00 out of 1.00

```
L=["Amit","Sumit","Naina"]
```

```
L1=["Sunil"]
```

```
print(L + L1)
```

- ☐ a. [List](#) can not concatenate
- ☐ b. ['Amit' , 'Sumit' , 'Naina' , ['Sunil']]
- ☒ c. ['Amit' , 'Sumit' , 'Naina' , 'Sunil'] ✔

Your answer is correct.

The correct answer is:

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

Question **5**

Correct

Mark 1.00 out of 1.00

What will be the output after the following statements?

```
m = [45, 51, 67]
```

```
n = m[2]
```

```
print
```

- ☐ a. [45, 51, 67]
- ☐ b. 51
- ☐ c. 45
- ☒ d. 67 ✓

Your answer is correct.

The correct answer is:

67

Question **6**

Incorrect

Mark 0.00 out of 1.00

```
L=[0.5 * x for x in range(4)]
```

```
print(L)
```

Answer: 0.0,0.5.1.0,1.5



The correct answer is: [0.0, 0.5, 1.0, 1.5]

Question **7**

Correct

Mark 1.00 out of 1.00

```
L=list("www.csiplearninghub.com")  
print(L[20 : -1])
```

- ☒ a. ['c' , 'o'] ✓
- ☐ b. [c,o,m]
- ☐ c. Error

Your answer is correct.

The correct answer is:

['c' , 'o']

Question **8**

Correct

Mark 1.00 out of 1.00

Choose a correct statement

- ☐ a. [List](#) are immutable
- ☐ b. [List](#) is data structure in python used to store the sequence of same types.
- ☐ c. 🌈 is used to represent the [list](#)
- ☒ d. [List](#) is data structure in python used to store the sequence of various types. ✓

Your answer is correct.

The correct answer is:

[List](#) is data structure in python used to store the sequence of various types.

Question **9**

Correct

Mark 1.00 out of 1.00

Which of the following can delete an element from a [list](#), if its value is given?

- ☐ a. `del()`
- ☐ b. `pop()`
- ☐ c. `extend()`
- ☒ d. `remove()` ✓

Your answer is correct.

The correct answer is:

`remove()`

Question **10**

Correct

Mark 1.00 out of 1.00

Find the Output?

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

```
print(list1[5:20])
```

- ☐ a. `[1, 2, 3, 1]`
- ☒ b. `[2, 3, 1]` ✓
- ☐ c. Error
- ☐ d. `[1, 2, 3, 4, 1, 2, 3, 1]`

Your answer is correct.

The correct answer is:

`[2, 3, 1]`

Question **11**

Correct

Mark 1.00 out of 1.00

To find the last element of [list](#) namely 'list1' in Python, ____ will be used.

- ☐ a. list1[pos]
- ☒ b. list1[-1] ✓
- ☐ c. list1[0]
- ☐ d. list1[:-1]

Your answer is correct.

The correct answer is:

list1[-1]

Question **12**

Correct

Mark 1.00 out of 1.00

Find the output?

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

```
list1.sort()
```

```
list1.pop()
```

```
list1.reverse()
```

```
print(list1)
```

- ☐ a. [3, 2, 1, 3, 2, 1]
- ☐ b. [4, 3, 3, 2, 2, 1]
- ☒ c. [3, 3, 2, 2, 1, 1] ✓
- ☐ d. [4, 3, 3, 2, 2, 1, 1]

Your answer is correct.

The correct answer is:

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

Question **13**

Correct

Mark 1.00 out of 1.00

What will be the output of the following Python code?

1. `>>>list1 = [11, 2, 23]`2. `>>>list2 = [11, 2, 2]`3. `>>>list1 < list2`

- ☒ a. False ✓
- ☐ b. Error
- ☐ c. True

Your answer is correct.

The correct answer is:

False

Question **14**

Correct

Mark 1.00 out of 1.00

What is the data type of m after the following statement?

`m = ['July', 'September', 'December']`

- ☐ a. String
- ☐ b. [Dictionary](#)
- ☒ c. [List](#) ✓
- ☐ d. Tuple

Your answer is correct.

The correct answer is:

[List](#)

Question **15**

Correct

Mark 1.00 out of 1.00

Write the output of the following:

```
list1=[3,2,5,7,3,6]
```

```
list1.remove(3)  
print(sum(list1))
```

- ☐ a. 19
- ☒ b. 23 ✓
- ☐ c. 20

Your answer is correct.

The correct answer is:

23

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