

Question 1

Correct

Mark 1.00 out of
1.00

Flag question

Given a positive integer a , find the smallest positive integer b whose multiplication of each digit equals to a .

If there is no answer or the answer is not fit in 32-bit signed integer, then return 0.

Example 1

Input:

48

Output:

68

Example 2

Input:

15

Output:

35

Answer: (penalty regime: 0 %)

```

1 a=int(input())
2 s1=set()
3 l=[]
4 if a>=0 and a<=9:
5     print(a)
6 else:
7     for i in range(10,100):
8         p=1
9         num=i
10        while i!=0:
11            p*=i%10
12            i=i//10
13        if p==a:
14            l.append(num)
15 print(min(l))
16

```

	Input	Expected	Got	
✓	48	68	68	✓
✓	15	35	35	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Sample Output 1

```

1
0
3
4

```

Explanation 1

We are given, $n = 5$, $\text{nums} = [2, 10, 5, 4, 8]$, $m = 4$, and $\text{maxes} = [3, 1, 7, 8]$.

1. For $\text{maxes}[0] = 3$, we have 1 element in nums ($\text{nums}[0] = 2$) that is $\leq \text{maxes}[0]$.
2. For $\text{maxes}[1] = 1$, there are 0 elements in nums that are $\leq \text{maxes}[1]$.
3. For $\text{maxes}[2] = 7$, we have 3 elements in nums ($\text{nums}[0] = 2$, $\text{nums}[2] = 5$, and $\text{nums}[3] = 4$) that are $\leq \text{maxes}[2]$.
4. For $\text{maxes}[3] = 8$, we have 4 elements in nums ($\text{nums}[0] = 2$, $\text{nums}[2] = 5$, $\text{nums}[3] = 4$, and $\text{nums}[4] = 8$) that are $\leq \text{maxes}[3]$.

Thus, the program returns the array $[1, 0, 3, 4]$ as the answer.

Answer: (penalty regime: 0 %)

```

1 n=int(input())
2 s1=[]
3 s2=[]
4 for i in range(n):
5     num=int(input())
6     s1.append(num)
7 m=int(input())
8 for i in range(m):
9     num=int(input())
10    s2.append(num)
11 length=[]
12 for i in s2:
13     s3=[]
14     for j in range(len(s1)):
15         if(s1[j]<=i):
16             s3.append(s1[j])
17     length.append(len(s3))
18 for i in length:
19     print(i)
20
21

```

	Input	Expected	Got	
✓	4 1 4 2 4 2 3 5	2 4	2 4	✓
✓	5 2 10 3 5 4 8 4 3 1 7 8	1 0 3 3 4	1 0 3 4	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Given two arrays of positive integers, for each element in the second array, find the total number of elements in the first array which are *less than or equal* to that element. Store the values determined in an array.

For example, if the first array is $[1, 2, 3]$ and the second array is $[2, 4]$, then there are 2 elements in the first array *less than or equal* to 2. There are 3 elements in the first array which are *less than or equal* to 4. We can store these answers in an array, $\text{answer} = [2, 3]$.

Program Description

The program must return an array of m positive integers, one *for each* $\text{maxes}[i]$ representing the total number of elements $\text{nums}[j]$ satisfying $\text{nums}[j] \leq \text{maxes}[i]$ where $0 \leq j < n$ and $0 \leq i < m$, in the given order.

The program has the following:

$\text{nums}[\text{nums}[0], \dots, \text{nums}[n-1]]$: first array of positive integers
 $\text{maxes}[\text{maxes}[0], \dots, \text{maxes}[n-1]]$: second array of positive integers

Constraints

- $2 \leq n, m \leq 10^5$
- $1 \leq \text{nums}[j] \leq 10^9$, where $0 \leq j < n$.
- $1 \leq \text{maxes}[i] \leq 10^9$, where $0 \leq i < m$.

Input Format For Custom Testing

Input from `stdin` will be processed as follows and passed to the program.

The first line contains an integer n , the number of elements in nums .

The next n lines each contain an integer describing $\text{nums}[j]$ where $0 \leq j < n$.

The next line contains an integer m , the number of elements in maxes .

The next m lines each contain an integer describing $\text{maxes}[i]$ where $0 \leq i < m$.

Sample Case 0**Sample Input 0**

```
4
1
4
2
4
2
3
5
```

Sample Output 0

```
2
4
```

Explanation 0

We are given $n = 4$, $\text{nums} = [1, 4, 2, 4]$, $m = 2$, and $\text{maxes} = [3, 5]$.

1. For $\text{maxes}[0] = 3$, we have 2 elements in nums ($\text{nums}[0] = 1$ and $\text{nums}[2] = 2$) that are $\leq \text{maxes}[0]$.
2. For $\text{maxes}[1] = 5$, we have 4 elements in nums ($\text{nums}[0] = 1$, $\text{nums}[1] = 4$, $\text{nums}[2] = 2$, and $\text{nums}[3] = 4$) that are $\leq \text{maxes}[1]$.

Thus, the program returns the array $[2, 4]$ as the answer.

Question 3

Correct
Mark 1.00 out of 1.00
[Flag question](#)

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 l=[]
3 for i in range(n):
4     l.append(int(input()))
5 key=int(input())
6 for i in range(len(l)):
7     if l[i]==key:
8         print(key,"is present at location",str(i+1)+".")
9     if(l.count(key)>1):
10        print(key,"is present",l.count(key),"times in the array.")
11    else:
12        print(key,"is not present in the array.")
13
14

```

	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 1

Correct

Mark 1.00 out
of 1.00

Flag question

The program must accept a string S which represents a series of keystrokes as the input. There are two special keystrokes denoted by " $\wedge z$ " for undo operation and " $\wedge y$ " for redo operation. The undo operation removes the last typed character and redo operations reverses the immediately done last undo operations. The program must accept the keystrokes and perform all the operations (undo and redo). Finally, the program must print the string after applying all the operations as the output.

Boundary Condition(s):1 \leq Length of string \leq 1000**Input Format:**

The first line contains the string S.

Output Format:

The first line contains the modified string.

Example Input/Output 1:

Input:

missel $\wedge z\wedge z\wedge z\wedge ypell\wedge z\wedge z\wedge yt$

Output:

misspelt

Explanation:

The characters **missel** are followed by three undo operations which deletes last three characters.So the string **missel** becomes **mis**.

The three undo operations are followed by one redo operation which reverses the last undo operation.

So the string **mis** becomes **miss**.Then the characters **pell** are entered which are followed by two undo operations so the last two characters are removed.So the string becomes **misspe**.Then a redo operation is applied which reverses the last undo operation and so the string **misspe** becomes **misspel**.The characters are followed by **t** so the final string is misspelt.**Answer:** (penalty regime: 0 %)

```

1 s=input()
2 d={}
3 s=s.replace("^\wedge z","0")
4 s=s.replace("^\wedge y","1")
5 j=0
6 for i in range(len(s)):
7     if(s[i]=="0" and s[i]!="1"):
8         d[j]=s[i]
9         j+=1
10    elif(s[i]=="0"):
11        x=(d.pop(len(d)-1))
12        j-=1
13    elif(s[i]=="1"):
14        d[j]=x
15        j+=1
16 l=[]
17 for i in d.values():
18     print(i,end="")

```

	Input	Expected	Got	
	missel $\wedge z\wedge z\wedge z\wedge ypell\wedge z\wedge z\wedge yt$	misspelt	misspelt	

Passed all tests!

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 l=list(map(int,input().split()))
3 k=int(input())
4 d={}
5 for i in range(len(l)+1):
6     for j in range(i+1,len(l)+1):
7         sublist=l[i:j]
8         length=len(sublist)
9         s=sum(sublist)
10        if s==k:
11            d[length]=s
12 print(max(d.keys()))
13
14
15
```

	Input	Expected	Got	
✓	5 1 -1 5 -2 3 3	4	4	✓
✓	4 -2 -1 2 1 1	2	2	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Finish review

Name 211701047 SAROSHMI B**Question 3**

Correct

Mark 1.00 out of
1.00

Flag question

Given an array $nums$ and a target value k , find the maximum length of a subarray that sums to k . If there isn't one, return 0 instead.

Note:

The sum of the entire $nums$ array is guaranteed to fit within the 32-bit signed integer range.

Example 1:**Input:**

5
1 -1 5 -2 3
3

Output:

4

Explanation:

$nums = [1, -1, 5, -2, 3], k = 3$

The subarray $[1, -1, 5, -2]$ sums to 3 and is the longest.

Example 2:**Input:**

4
-2 -1 2 1
1

Output:

2

Explanation:

$nums = [-2, -1, 2, 1], k = 1$

The subarray $[-1, 2]$ sums to 1 and is the longest.

Question 1

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

$1 \leq \text{orderValue} < 10e100000$

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
<code>print(christmasDiscount(578))</code>	12

Answer: (penalty regime: 0 %)

Reset answer

```
1 def christmasDiscount(n):
2     l=[]
3     while n!=0:
4         d=n%10
5         if (isprime(d)):
6             l.append(d)
7         n=n//10
8     return sum(l)
9
10 def isprime(n):
11     c=0
12     for i in range(1,n+1):
13         if(n%i==0):
14             c+=1
15     if c==2:
16         return True
17     else:
18         return False
19
```

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

Passed all tests! ✓

Question 2

Correct

Mark 1.00 out of 1.00

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

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

Task:

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

return ugly if it is ugly, else return not ugly

Hint:

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

For example:

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

Answer: (penalty regime: 0 %)

Reset answer

```
1 def checkUgly(n):
2     if n==1:
3         return "ugly"
4     l=[2,3,5]
5     while n!=1:
6         for i in l:
7             if(n%i==0):
8                 n/=i
9                 break
10    else:
11        return "not ugly"
12    return "ugly"
13
14
```

	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 3

Correct

Mark 1.00 out of 1.00

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

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

Input Format:

Integer input from stdin.

Output Format:

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

Example Input:

16

Output:

4

Explanation:

We need only 4 coins of value 4 each

Example Input:

25

Output:

7

Explanation:

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

Answer: (penalty regime: 0 %)

Reset answer

```
1 def coinChange(n):
2     coins=0
3     if n==1 or n==2 or n==3 or n==4:
4         coins=1
5     else:
6         coins=coins+(n//4)
7         n=n%4
8         coins=coins+(n//3)
9         n=n%3
10        coins=coins+(n//2)
11        n=n%2
12        coins=coins+(n//1)
13        n=n%1
14    return coins
15
16
```

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

Passed all tests! ✓

Question 4

Correct

Mark 1.00 out of 1.00

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

Input Format:

Take an input integer from stdin.

Output Format:

Print TRUE or FALSE.

Example Input:

1256

Output:

TRUE

Example Input:

1595

Output:

FALSE

For example:

Test	Result
print(productDigits(1256))	True
print(productDigits(1595))	False

Answer: (penalty regime: 0 %)

Reset answer

```
1 def productDigits(n):
2     l=[]
3     even=1
4     odd=0
5     while n!=0:
6         l.append(n%10)
7         n=n//10
8     for i in range(len(l)):
9         if(i%2==0):
10             even*=l[i]
11         else:
12             odd+=l[i]
13
14     if(even%odd==0):
15         return True
16     else:
17         return False
```

	Test	Expected	Got	
✓	print(productDigits(1256))	True	True	✓
✓	print(productDigits(1595))	False	False	✓

Question 5

Correct

Mark 1.00 out of 1.00

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

Input Format:

Take a number in the form of String from stdin.

Output Format:

Print the difference between sum of even and odd digits

Example input:

1453

Output:

1

Explanation:

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

sum of odd digits is $1 + 5 = 6$.

Difference is 1.

Note that we are always taking absolute difference

Answer: (penalty regime: 0 %)

Reset answer

```
1 def differenceSum(n):
2     n=str(n)
3     even=0
4     odd=0
5     for i in range(len(n)):
6         if(i%2==0):
7             even+=int(n[i])
8         else:
9             odd+=int(n[i])
10    return(abs(even-odd))
11
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Started on	Saturday, 28 January 2023, 8:16 PM
State	Finished
Completed on	Saturday, 28 January 2023, 8:27 PM
Time taken	10 mins 32 secs
Marks	4.00/4.00
Grade	40.00 out of 40.00 (100%)
Name	211701047 SAROSHMI B

Question **1**

Correct

Mark 1.00 out of
1.00

Flag question

Write a program that returns the second last digit of the given number. Second last digit is being referred to the 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
-197	9
5	-1

Answer: (penalty regime: 0 %)

```

1 n=int(input())
2 n=abs(n)
3 if(n>=0 and n<=9):
4     print("-1")
5 else:
6     temp=n//10
7     rem=temp%10
8     print(rem)
9

```

	Input	Expected	Got	
✓	197	9	9	✓
✓	-197	9	9	✓
✓	5	-1	-1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Name [211701047 SAROSHMI B](#)

Question 2

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 n=abs(n)
3 la=n%10
4 print(la)

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of
1.00

Flag question

Rohit wants to add the last digits of two given numbers.

For example,

If the given numbers are 267 and 154, the output should be 11.

Below is the explanation:

Last digit of the 267 is 7

Last digit of the 154 is 4

Sum of 7 and 4 = 11

Write a program to help Rohit achieve this for any given two numbers.

Note: Tile sign of the input numbers should be ignored.

i.e.

if the input numbers are 267 and 154, the sum of last two digits should be 11

if the input numbers are 267 and -154, the sum of last two digits should be 11

if the input numbers are -267 and 154, the sum of last two digits should be 11

if the input numbers are -267 and -154, the sum of last two digits should be 11

For example:

Input	Result
267	11
154	
267	11
-154	

Answer: (penalty regime: 0 %)

```

1 n1=int(input())
2 n2=int(input())
3 n1=abs(n1)
4 n2=abs(n2)
5 la1=n1%10
6 la2=n2%10
7 print(la1+la2)

```

	Input	Expected	Got	
✓	267 154	11	11	✓
✓	267 -154	11	11	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Name [211701047 SAROSHMI B](#)**Question 4**

Correct

Mark 1.00 out of 1.00

Complete the program to convert days into years, month and days. (Ignoring leap year and considering 1 month is 30 days)

Sample Test Cases

Test Case 1

Input

375

Output

YEARS: 1 MONTH: 0 DAYS: 10

Test Case 2

Input

200

Output

YEARS: 0 MONTH: 6 DAYS: 20

Answer: (penalty regime: 0 %)

```
1 days=int(input())
2 yrs=days//365
3 mth=(days-yrs*365)//30
4 day=(days-yrs*365-mth*30)
5 print("YEARS: "+str(yrs)+" MONTH: "+str(mth)+" DAYS: "+str(day))
```

	Input	Expected	Got	
✓	375	YEARS: 1 MONTH: 0 DAYS: 10	YEARS: 1 MONTH: 0 DAYS: 10	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Started on Sunday, 5 February 2023, 4:45 PM

State Finished

Completed on Sunday, 5 February 2023, 4:55 PM

Time taken 10 mins 20 secs

Marks 5.00/5.00

Grade **50.00** out of 50.00 (**100%**)

Name [211701047 SAROSHMI B](#)

Question 1

Correct

Mark 1.00 out of 1.00

Write a program that reads a positive integer, n, from the user and then displays the sum of all of the integers from 1 to n. The sum of the first n positive integers can be computed using the formula:

$\text{sum} = (n)(n + 1) / 2$

Sample Input

10

Sample Output

The sum of the first 10 positive integers is 55.0

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 sum=(n*(n+1))/2
3 print("The sum of the first "+str(n)+" positive integers is "+str(sum))
```

	Input	Expected	Got	
✓	10	The sum of the first 10 positive integers is 55.0	The sum of the first 10 positive integers is 55.0	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Name [211701047 SAROSHMI B](#)

Question 2

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 (less and more) of each size 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.

Answer: (penalty regime: 0 %)

```
1 n1=int(input())
2 n2=int(input())
3 a1=n1*0.10
4 a2=n2*0.25
5 print("Your total refund will be ${:.2f}{}".format(a1+a2))
6
```

	Input	Expected	Got	
✓	10 20	Your total refund will be \$6.00.	Your total refund will be \$6.00.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[◀ WEEK-02_CODING](#)

Jump to...

Name [211701047 SAROSHMI B](#)**Question 3**

Correct

Mark 1.00 out of 1.00

Complete the program to convert days into years, month and days. (Ignoring leap year and considering 1 month is 30 days & 1 year is 365 days)

Sample Test Cases

Test Case 1

Input

375

Output

YEARS: 1 MONTH: 0 DAYS: 10

Test Case 2

Input

200

Output

YEARS: 0 MONTH: 6 DAYS: 20

Answer: (penalty regime: 0 %)

```
1 days=int(input())
2 yr=days//365
3 days=days%365
4 month=days//30
5 days=days%30
6 print("YEARS:",yr,"MONTH:",month,"DAYS:",days)
```

	Input	Expected	Got	
✓	375	YEARS: 1 MONTH: 0 DAYS: 10	YEARS: 1 MONTH: 0 DAYS: 10	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Name [211701047 SAROSHMI B](#)

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

NOTE: for -ve to +ve number conversion u can use abs()

For example:

Input	Result
197	7
-197	7

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Name [211701047 SAROSHMI B](#)**Question 5**

Correct

Mark 1.00 out of 1.00

Write a program that asks the user to enter the width and length of a room. Once these values have been read, your program should compute and display the area of the room. The length and the width will be entered as floating-point numbers.

Sample Input

11.11

22.22

Sample Output

246.8641999999998 square feet

Answer: (penalty regime: 0 %)

```
1 width=float(input())
2 length=float(input())
3 print((width*length), "square feet")
4
```

	Input	Expected	Got	
✓	11.11 22.22	246.8641999999998 square feet	246.8641999999998 square feet	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[◀ WEEK-02_CODING](#)

Jump to...

[Week-03_MCQ ►](#)

Started on	Thursday, 9 February 2023, 1:15 PM
State	Finished
Completed on	Friday, 10 February 2023, 10:14 PM
Time taken	1 day 8 hours
Marks	5.00/5.00
Grade	50.00 out of 50.00 (100%)
Name	211701047 SAROSHMI B

Question 1
Correct
Mark 1.00 out of 1.00
Flag question

Write a Python program to calculate profit and loss (Cost Price and Selling Price is given as inputs).

Sample Test Cases

Test Case 1

Input

```
6000.00
6700.50
```

Output

Profit amount : Rs. 700.50

Test Case 2

Input

```
600.50
520.00
```

Output

Loss amount : Rs. 80.50

Answer: (penalty regime: 0 %)

```
1 cp=float(input())
2 sp=float(input())
3 if(cp>sp):
4     loss=cp-sp
5     print("Loss amount : Rs. %.2f"%loss)
6 elif(sp==cp):
7     print("No profit No loss")
8 else:
9     profit=sp-cp
10    print("Profit amount : Rs. %.2f"%profit)
```

	Input	Expected	Got	
✓	6000.00 6700.50	Profit amount : Rs. 700.50	Profit amount : Rs. 700.50	✓
✓	600.50 520.00	Loss amount : Rs. 80.50	Loss amount : Rs. 80.50	✓
✓	970 970	No profit No loss	No profit No loss	✓

Passed all tests! ✓

ANSWER

Marks for this submission: 1.00/1.00.



Name 211701047 SAROSHMI B

Question 2

Correct

Mark 1.00 out of
1.00[Flag question](#)

Write a program that accepts two inputs and finds whether the first number is an exact multiple of the second number.

If the first number is an exact multiple of the second number, the program should return 2 else it should return 1.

If either of the inputs are zero, the function should return 3.

Assumption: Within the scope of this question, assume that:

- the first parameter can be positive, negative or zero
- the second parameter will always be ≥ 0

For example:

Input	Result
100	2
5	
100	1
6	

Answer: (penalty regime: 0 %)

```
1 | a=int(input())
2 | b=int(input())
3 | if(a==0 or b==0):
4 |     print("3")
5 | elif(a%b==0):
6 |     print("2")
7 | else:
8 |     print("1")
9 |
```

	Input	Expected	Got	
✓	100 5	2	2	✓
✓	100 6	1	1	✓
✓	1000 100	2	2	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Name 211701047 SAROSHMI B**Question 3**

Correct

Mark 1.00 out of
1.00

Flag question

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

Answer: (penalty regime: 0 %)

```

1 unit=int(input())
2 charge=0
3 if(unit<=199):
4     charge=charge+unit*1.20
5 elif(unit>=200 and unit<400):
6     charge=charge+unit*1.50
7 elif(unit>=400 and unit<600):
8     charge=charge+unit*1.80
9 elif(unit>=600):
10    charge=charge+unit*2.00
11 if(charge>400):
12    charge=charge+charge*(15/100)
13 elif(charge<100):
14    charge=100.00
15 print("%0.2f"%charge)

```

	Input	Expected	Got	
	50	100.00	100.00	
	300	517.50	517.50	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out
of 1.00 Flag question

Write a program to determine the type of berth when the seat / berth number in the train is given.

**Input Format:**

Input consists of a single integer. Assume that the range of input is between 1 and 72.

Output Format:

Output consists of a single string. [Upper or Middle or Lower or Side Lower or Side Upper]

Sample Input 1:

9

Sample Output 1:

Lower Berth

Answer: (penalty regime: 0 %)

```

1 n=input()
2
3 if(n in "1,4,9,12,17,20,255,28,33,36,41,44,49,52,57,60,65,68"):
4     print("Lower Berth")
5 elif (n in "2,5,10,13,18,21,26,29,34,37,42,5,50,53,58,61,66,69"):
6     print("Middle Berth")
7 elif(n in "3,6,11,14,19,22,27,30,35,38,43,46,51,54,59,62,67,70"):
8     print("Upper Berth")
9 elif(n in "7,1,23,31,39,47,55,63,71"):
10    print("Side Lower Berth")
11 elif (n in "8,16,24,32,40,48,56,64,72"):
12    print("Side Upper Berth")

```

	Input	Expected	Got	
✓	9	Lower Berth	Lower Berth	✓
✓	72	Side Upper Berth	Side Upper Berth	✓

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Name [211701047 SAROSHMI B](#)
Question 5

Correct

Mark 1.00 out of 1.00

A toy vendor supplies three types of toys: Battery Based Toys, Key-based Toys, and Electrical Charging Based Toys. The vendor gives a discount of 10% on orders for battery-based toys if the order is for more than Rs. 1000. On orders of more than Rs. 100 for key-based toys, a discount of 5% is given, and a discount of 10% is given on orders for electrical charging based toys of value more than Rs. 500. Assume that the numeric codes 1,2 and 3 are used for battery based toys, key-based toys, and electrical charging based toys respectively. Write a program that reads the product code and the order amount and prints out the net amount that the customer is required to pay after the discount.

Answer: (penalty regime: 0 %)

```

1 | code=int(input())
2 | amt=int(input())
3 | if(code==1):
4 |     if(amt>1000):
5 |         price=amt-((10/100)*amt)
6 |         print(round(price))
7 |     else:
8 |         print(amt)
9 | elif(code==2):
10 |    if(amt>100):
11 |        price=amt-((5/100)*amt)
12 |        print(round(price))
13 |    else:
14 |        print(amt)
15 | elif(code==3):
16 |    if(amt>500):
17 |        price=amt-((10/100)*amt)
18 |        print(round(price))
19 |    else:
20 |        print(amt)
21 |

```

	Input	Expected	Got	
✓	1 2000	1800	1800 ✓	
✓	2 90	90	90 ✓	
✓	3 10000	9000	9000 ✓	

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[◀ WEEK-03_CODING](#)

Jump to...

[Week-04_MCQ ►](#)

Started on	Tuesday, 14 February 2023, 10:56 AM
State	Finished
Completed on	Monday, 20 February 2023, 5:01 PM
Time taken	6 days 6 hours
Marks	4.00/4.00
Grade	50.00 out of 50.00 (100%)
Name	211701047 SAROSHMI B

Question **1**

Correct

Mark 1.00 out of 1.00

Flag question

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 n=str(n)
3 count=0
4 unique=""
5 for i in n:
6     if i not in unique:
7         unique+=i
8         count+=1
9 print(count)

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Name 211701047 SAROSHMI B

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Write a program to find the count of the number of prime numbers in a specified range.

The starting and ending number of the range will be provided as input to the program.

Assumption: $2 \leq$ starting number of the range \leq ending number of the range ≤ 7919

Example1: If the starting and ending number of the range is given as 2 and 20, the program must return 8, because there are 8 prime numbers in the specified range from 2 to 20, namely (2, 3, 5, 7, 11, 13, 17, 19)

Example2: If the starting and ending number of the range is given as 700 and 725, the program must return 3, because there are 3 prime numbers in the specified range from 700 to 725, namely (701, 709, 719)

For example:

Input	Result
2	8
20	
700	3
725	

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 b=int(input())
3 count=0
4 for i in range(a,b+1):
5     if i<=1:
6         print("1")
7     for j in range(2,i):
8         if(i%j)==0:
9             break
10    else:
11        count+=1
12 print(count)
13
14
15
```

	Input	Expected	Got	
✓	2 20	8	8	✓
✓	700 725	3	3	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

CD19411-Python Programming for Design-2021

Name 211701047 SAROSHMI B

Question 3

Correct

Mark 1.00 out of
1.00

Flag question

Write a program to find the count of the number of prime numbers in a specified range.

The starting and ending number of the range will be provided as input to the program.

Assumption: $2 \leq \text{starting number of the range} \leq \text{ending number of the range} \leq 7919$

Example1: If the starting and ending number of the range is given as 2 and 20, the program must return 8, because there are 8 prime numbers in the specified range from 2 to 20. namely (2, 3, 5, 7, 11, 13, 17, 19)

Example2: If the starting and ending number of the range is given as 700 and 725, the program must return 3, because there are 3 prime numbers in the specified range from 700 to 725, namely (701, 709, 719)

For example:

Input	Result
2	8
20	
700	3
725	

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 b=int(input())
3 count=0
4 for i in range(a,b+1):
5     if i>1:
6         for j in range(2,i):
7             if(i%j)==0:
8                 break
9         else:
10            count+=1
11
12
13
14 print(count)
```

	Input	Expected	Got	
✓	2 20	8	8	✓
✓	700 725	3	3	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of
1.00

Flag question

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

Sample Test Cases

Test Case 1

Input

4

Output

1234

Test Case 2

Input

6

Output

123456

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 sum=0
3 s=""
4 for i in range(n):
5     s=s+"1"
6     sum=sum+int(s)
7 print(sum,end="")
8
```

	Input	Expected	Got	
✓	4	1234	1234	✓
✓	6	123456	123456	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 1

Correct

Mark 1.00 out of 1.00

Find the intersection of two sorted arrays.

OR in other words,

Given 2 sorted arrays, find all the elements which occur in both the arrays.

Input Format

The first line contains T, the number of test cases. Following T lines contain:

1. Line 1 contains N1, followed by N1 integers of the first array
2. Line 2 contains N2, followed by N2 integers of the second array

Output Format

The intersection of the arrays in a single line

Example

Input:

1
3 10 17 57
6 2 7 10 15 57 246

Output:

10 57

Input:

1
7
1
2
3
3
4
5
6
2
1
6

Output:

1 6

For example:

Input	Result
1	10 57
3	
10	
17	
57	
6	
2	
7	
10	
15	
57	
246	

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

Answer: (penalty regime: 0 %)

```

1 t=int(input())
2 for i in range(t):
3     n1=int(input())
4     l1=[]
5     l2=[]
6     for i in range(n1):
7         m=int(input())
8         l1.append(m)
9     n2=int(input())
10    for i in range(n2):
11        m=int(input())
12        l2.append(m)
13    intersection=[]
14    for i in l1:
15        for j in l2:
16            if i==j:
17                intersection.append(i)
18    for i in intersection:
19        print(i,end=" ")

```

	Input	Expected	Got	
✓	1 3 10 17 57 6 2 7 10 15 57 246	10 57	10 57	✓
✓	1 7 1 2 3 3 4 5 6 2 1 6	1 6	1 6	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Given two lists A and B, and B is an anagram of A. B is an anagram of A means B is made by randomizing the order of the elements in A.

We want to find an *index mapping* P, from A to B. A mapping $P[i] = j$ means the ith element in A appears in B at index j.

These lists A and B may contain duplicates. If there are multiple answers, output any of them.

For example, given

Input

5

12 28 46 32 50

50 12 32 46 28

Output

1 4 3 2 0

Explanation $A = [12, 28, 46, 32, 50]$ $B = [50, 12, 32, 46, 28]$

We should return

[1, 4, 3, 2, 0]

as $P[0] = 1$ because the 0th element of A appears at B[1], and $P[1] = 4$ because the 1st element of A appears at B[4], and so on.

Note:

1. A, B have equal lengths in range [1, 100].
2. $A[i], B[i]$ are integers in range $[0, 10^5]$.

Answer: (penalty regime: 0 %)

```

1 n=int(input())
2 l1=input().split()
3 l2=input().split()
4 index=[]
5 for i in range(len(l1)):
6     for j in range(len(l2)):
7         if(l1[i]==l2[j]):
8             index.append(j)
9 for i in index:
10    print(i,end=" ")
11

```

	Input	Expected	Got	
✓	5 12 28 46 32 50 50 12 32 46 28	1 4 3 2 0	1 4 3 2 0	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out
of 1.00[Flag question](#)

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 l1=[]
2 l2=[]
3 ans=[]
4 r1=[]
5 r2=[]
6 m=int(input())
7 n=int(input())
8 for i in range(m):
9     r=[]
10    for j in range(n):
11        num=int(input())
12        r.append(num)
13    l1.append(r)
14 for i in range(m):
15     r=[]
16    for j in range(n):
17        num=int(input())
18        r.append(num)
19    l2.append(r)
20 for i in range(m):
21     l1[i].extend(l2[i])
22 print(l1)

```

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

Passed all tests! ✓

[Submit](#)

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out
of 1.00

Flag question

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 l=[]
2 n=int(input())
3 for i in range(n):
4     m=int(input())
5     l.append(m)
6 if(len(l)<2):
7     print("True")
8 elif(l==sorted(l) or l[::-1]):
9     print("True")
10 else:
11     print("False")
12

```

	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.

Started on Sunday, 2 April 2023, 10:48 PM

State Finished

Completed on Thursday, 6 April 2023, 1:07 PM

Time taken 3 days 14 hours

Marks 5.00/5.00

Grade 50.00 out of 50.00 (100%)

Name [211701047 SAROSHMI B](#)

Question 1

Correct

Mark 1.00 out of 1.00

Given a string s, reverse the order of characters in each word within a sentence while still preserving whitespace and initial word order.

For example:

Input	Result
Let's take LeetCode contest	s'teL ekat edoCteeL tsetnoc

Answer: (penalty regime: 0 %)

```

1 | s=input()
2 | w=s.split()
3 | for i in w:
4 |     print(i[::-1],end=" ")
5 |

```

	Input	Expected	Got	
✓	Let's take LeetCode contest	s'teL ekat edoCteeL tsetnoc	s'teL ekat edoCteeL tsetnoc	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[◀ WEEK-06_CODING](#)

Jump to...

Name [211701047 SAROSHMI B](#)
Question 2

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().split()
2 for word in s:
3     if(word.lower()!=word[::-1].lower()):
4         print(word,end=" ")
5
6

```

	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.

[◀ WEEK-06_CODING](#)

Jump to...

[Week-07_MCQ ►](#)

Name [211701047 SAROSHMI B](#)
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 l=0
3 d=0
4 sy=0
5 for i in s:
6     if i.isalpha():
7         l+=1
8     elif i.isdigit():
9         d+=1
10    else:
11        sy+=1
12 print(l)
13 print(d)
14 print(sy)

```

	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.

Name [211701047 SAROSHMI B](#)
Question 4

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	True
PYNATIVE	

Answer: (penalty regime: 0 %)

```

1 | s1=input()
2 | s2=input()
3 v if s1 in s2:
4 |     print("True")
5 v else:
6 |     print("False")

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[◀ WEEK-06_CODING](#)

Jump to...

Name [211701047 SAROSHMI B](#)**Question 5**

Correct

Mark 1.00 out of 1.00

Assume that the given string has enough memory.

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

Sample Input 1

a2b4c6

Sample Output 1

aabbbbcccccc

Answer: (penalty regime: 0 %)

```

1 s=input()
2 c=""
3 d=""
4 for i in s:
5   if i.isdigit():
6     d+=i
7     c+=" "
8   else:
9     c+=i
10    d+=" "
11 c=c.split()
12 d=d.split()
13 s1=""
14 for i in range(len(d)):
15   s1+=c[i]*int(d[i])
16 print(s1)
17

```

	Input	Expected	Got	
✓	a2b4c6	aabbbbcccccc	aabbbbcccccc	✓
✓	a12b3d4	aaaaaaaaaaabbddddd	aaaaaaaaaaabbddddd	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[◀ WEEK-06_CODING](#)

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