3:25

Question 2

Revisit Later

How to Attempt?

Vowel Permutation

You are given a string **S** and your task is to find and return the count of permutations formed by fixing the positions of the vowels present in the string.

Note:

- *Ensure the result is non-negative.*
- *If there are no consonents then return 0.*

Input Specification:

input1 : A string S

Output Specification:

Return an integer value representing the count of permutations formed by fixing the positions of the vowels present in the string.

Example 1:

input1 : ABC

PYTHON3 Compiler: Python 3.11

```python
    @classmethod
    def vowelPermutation(cls, input1):
        '''
        input1 : string

        Expected return type : int
        '''
        # Read only region end
        # Write code here
        def factorial(n):
            if n<=1:
                return 1
            return n*factorial(n-1)
        consonants=0
        for char in input1:
            if char.lower() not in "aeiou":
                consonants+=1
        if consonants==0:
            return 0
        return factorial(consonants)
```

Use Custom Input

Need Help? Contact us (Please add country code while dialing) +91 63669 37447

Attempted: 1/2

Question 2

Revisit Later

How to Attempt?

Arctic Temperature Tracker

You are leading an Arctic expedition and need to closely monitor the temperature to ensure the safety of your team. Your tracker has records of the daily temperatures (in Celsius) for each day of your expedition in the form of an array **A**. Your task is to find and return the longest consecutive period (in days) where the temperature drops for at least 3 days.

Input Specification:

input1 : An integer array A, representing the temperature for each day.
input2 : An integer value, representing the size of the array.

Output Specification:

Return an integer value representing the longest consecutive period

PYTHON3 | Compiler: Python 3.11

```
    Expected return type : int
    '''
    # Read only region end
    # Write code here
    c=1
    q=0
    for i in range(1,input2):
        if input1[i]<input1[i-1]:
            c+=1
        else:
            if c>=3:
                q=max(q,c)
            c=1
    if c>=3:
        q=max(q,c)
    return q
```

Use Custom Input

Compile and Test

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3:25

1. Coding

White Space Difference

You are given 2 strings **A** and **B**. Your task is to find and return a string saying 'Even' if the value representing the absolute differences between the number of whitespaces in both the strings is divisible by 2 else 'Odd' if the value representing the absolute differences between the number of whitespaces in both the strings the whitespace is not divisible by 2 along with the difference value

Input Specification:

input1 : A string A
input2 : A string B

Output Specification:

Return a string saying 'Even' if the value representing the absolute differences between the number of whitespaces in both the strings is divisible by 2 else 'Odd' if the value representing the absolute differences between the number of whitespaces in both the strings the whitespace is not divisible by 2.

Example 1:

input1 : "He ll o W or ld"
input2 : "Hello World"

Output : Even4

1 2

Attempted: 1/2

PYTHON3 Compiler: Python 3.11

```python

# Read only region start
class UserMainCode(object):
    @classmethod
    def Difference(cls, input1, input2):
        '''
        input1 : string
        input2 : string

        Expected return type : string
        '''
        # Read only region end
        # Write code here
        res=abs(input1.count(' ')-input2.count(' '))
        if res%2==0:
            return "Even"+str(res)
        else:
            return "Odd"+str(res)
```

Use Custom Input

Compile

Question 1

Revisit Later

How to Attempt?

Character Count

You are given a string **S** of length **N**. Your friend wants to know the number of times his favorite letter **C** occurs in the string. Your task is to help your friend find and return an integer value representing the number of times a character occurs in a particular string.

Note: *All the characters in the strings are in lowercase.*

Input Specification:

input1 : A string S
input2 : An integer N, representing the length of string
input3 : A character C

Output Specification:

Return an integer value representing the number of times a character occurs in a particular string.

Example 1:

input1 : helloworld
input2 : 10
input3 : l

Output : 3

Attempted: 2/2

PYTHON3 | Compiler: Python 3.11

```python

# Read only region start
class UserMainCode(object):
    @classmethod
    def count(cls, input1, input2, input3):
        '''
        input1 : string
        input2 : int
        input3 : string

        Expected return type : int
        '''
        # Read only region end
        # write code here
        pass
        return input1.count(input3)
```

Use Custom Input

Compi

1. Coding

1 2

Rebound Height

Daniel has a ball. He wants to find the ball's rebound height, which he dropped from height **H** with an initial velocity **V**. After the **N**th rebound the final velocity of the ball is $\mathbf{V_n}$. Your task is to help him find and return an integer value representing the height to which the ball rebounds after **N** bounces.

Note:

- $H' = H \times e^{2n}$, *where H' is the rebound height, H is the initial height, e is the coefficient of restitution and is the number of bounces.*
- $e^n = V/V_n$, *where V is the initial velocity and V_n is the final velocity*

Input Specification:

input1 : An integer H, representing initial height
input2 : An integer V, representing initial velocity
input3 : An integer V_n, representing final velocity

Output Specification:

Return an integer value representing the height to which the ball rebounds after N bounces.

Attempted: 2/2

PYTHON3 Compiler: Python 3.11

```python
class UserMainCode(object):
    @classmethod
    def rebound(cls, input1, input2, input3):
        '''
        input1 : int
        input2 : int
        input3 : int

        Expected return type : int
        '''
        # Read only region end
        # Write code here
        e = input2 / input3
        res = input1 * (e**2)
        return int(res)
```

Use Custom Input

Compile and Test

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Question 1

Revisit Later

How to Attempt?

Find Dividend

You are given array **A**, having some dividends. Further, you are given 3 numbers **D**, **Q** and **R**. A dividend can be found using a rule that states:

- Dividend = Divisor x Quotient + Remainder

Your task is to find and return an integer value representing the index of the dividend if present in array. If dividend not found return -1.

Input Specification:

input1 : An integer array A, containing dividends
input2 : An integer D, representing divisor
input3 : An integer Q, representing quotient
input4 : An integer R, representing remainder
input5 : An integer N, representing length of array A

Output Specification:

Return an integer value representing the index of the dividend if present in array. If dividend not found return 0.

Example 1:

PYTHON3 Compiler: Python 3.11

```python
class UserMainCode(object):
    @classmethod
    def dividend(cls, input1, input2, input3, input4, input5):
        '''
        input1 : int[]
        input2 : int
        input3 : int
        input4 : int
        input5 : int

        Expected return type : int
        '''
        # Read only region end
        # Write code here
        dividend=input2*input3+input4
        for i in range(len(input1)):
            if input1[i]==dividend:
                return i
        return -1
```

Use Custom Input

3:25

Island Life

You are stuck on an island where they sell and eat coconut sweets only. A person can buy at most 1 box per day with each box containing **N** pieces. To remain alive, you must consume **E** coconut sweets daily for **D** days, but the catch is that you cannot purchase sweets on Sundays. Your task is to find and return an integer value representing the minimum number of times you have to buy coconut sweets in order to stay alive. If not possible, return -1.

Note: *The day starts from Monday*

Input Specification:

Input1 : An integer value N, representing the number of coconut sweets per box.
Input2 : An integer value E, representing the number of coconut sweets you must eat daily.
Input3 : An integer value D, representing the number of days you have to spend on the island.

Output Specification:

Return an integer value representing the minimum number of times

Attempted: 2/2

PYTHON3 | Compiler: Python 3.11

```
    input3 : int

    Expected return type : int
    '''
    # Read only region end
    # Write code here
    buy=input3-input3//7
    total=input2*input3
    maximum=input1*buy
    if maximum<total:
        return -1
    minimum=total//input1
    if total%input1!=0:
        minimum+=1
    return minimum
```

Use Custom Input

Compile

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Poet and Rhymes

A poet has asked you for assistance in writing poems. He has given you a string **S** and a dictionary **D** and he asks you to find, from the dictionary, a word which rhymes best with S. Words are said to rhyme when the last syllables of the words are the same, like "cave" and "gave", or "typical" and "critical." The words will be deemed to rhyme best if the last few characters of the words match the most.

Your task is to find and return a string value denoting the word which rhymes best with S, from the dictionary D. If no such word is found, return the string "No Word".

Note:

- *If all the characters match, it is the same word and not a rhyming word.*
- *All the given words are in lowercase.*
- *If multiple rhyming words are found, then choose the word with the least index.*

Input Specification:

input1 : A string value S, representing a single word
input2 : A string array D, representing the dictionary
input3 : An integer value representing the length of array D

Output Specification:

Return a string value denoting the word which rhymes best with S from the dictionary D. If no such word is found, return the string "No Word".

Attempted: 2/2

PYTHON3 | Compiler: Python 3.11

```python
# Write code here
res="No Word"
max_val=0
t=input1[::-1]
for word in input2:
    if word!=input1:
        curr=0
        s=word[::-1]
        i=0
        while i<min(len(s),len(t)):
            if s[i]==t[i]:
                curr+=1
            else:
                break
            i+=1
        if curr>max_val:
            max_val=curr
            res=word
return res
```

Use Custom Input

Com

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Clean String

You are given two strings **A** and **B**. Your task is to find and return a string representing the leftover string in A after removing all the letters that exist in string B. Return "Empty" if the output does not contain any value.

Note :

- *Strings A and B contain English alphabets in upper case only.*
- *A single alphabet in B can replace all the occurrences of that alphabet in A.*

Input Specification:

input1 : A string A
input2 : A string B

Output Specification:

Return a string representing the leftover string in A after removing all the letters that exist in string B.

Example 1:

Attempted: 1/2

PYTHON3 | Compiler: Python 3.11

```python
    '''
    input1 : string
    input2 : string

    Expected return type : string
    '''
    # Read only region end
    # Write code here
    res=''
    for char in input1:
        if char not in input2:
            res+=char
    if res:
        return res
    else:
        return "Empty"
```

IntelliSense is loading

Use Custom Input

Compile a

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3:25

Question 2

Revisit Later

How to Attempt?

Halloween Candies

Bob goes to super market to shop candies represented by an array **A** for halloween party, his mother gave him some money **M**. Due to the festive season, there are several offers in the supermarket. One such offer useful for Bob is, if the price of the candy is a multiple of 5, he can buy it without spending any money otherwise he will spend money equal to Ai which is the price of a particular candy. Bob can shop as long as he has money. Your task is to find and return the maximum number of candies Bob can buy.

Note *Assume 1-based indexing.*

Input Specification:

input1 : An integer value, representing number of candies.
input2 : An integer array A, representing price of each candy.
input3 : An integer value M, representing the amount of money.

Output Specification:

Return the number of candies Bob can buy.

Example 1:

input1 : 3
input2 : [5,5,105]
input3 : 16

PYTHON3 | Compiler: Python 3.11

```python
def halloweenCandies(cls, input1, input2, input3):
    '''
    input1 : int
    input2 : int[]
    input3 : int

    Expected return type : int
    '''
    # Read only region end
    # Write code here
    y=[x for x in input2 if x%5!=0]
    if len(y)==0:
        return input1
    y.sort()
    d=input1-len(y)
    i=0
    while i<len(y):
        input3-=y[i]
        if input3<0:
            break
        d+=1
        i+=1
    return d
```

Use Custom Input

Compile and Test

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How to Attempt?

Maximum Permutation Value

You are given a string array of length **N**. Your task is to find and return an integer value representing the maximum permutation count of the strings after removing all the vowels from every element in the string array.

Note:

- *Consider all the letters in the string as different (if the word is "dog", then consider both 'o's as different)*
- *If there are no permutable characters then return 0.*
- *The string consists of both uppercase and lowercase characters.*

Input Specification:

input1 : An string array of length N.
input2 : An integer N representing the size of the string array.

Output Specification:

Return an integer value representing the maximum permutation count of the string elements.

Example 1:

input1 : [hello,color,earth]
input2 : 3

```
Complete Python 3.6

@classmethod
def maxPermutationValue(cls, input1, input2):
    '''
    input1 : string[]
    input2 : int

    Expected return type : int
    '''
    # Read only region end
    # Write code here
    def factor(n):
        if n==0:
            return 1
        return n*factor(n-1)
    value=0
    for word in input1:
        res=""
        for char in word.lower():
            if char not in "aeiou":
                res+=char
        if len(res)!=0:
            value=max(value,factor(len(res)))
    return value
```

Use Custom Input

Compile and R

1 2

Attempted: 1/2

Question 1

Revisit Later

How to Attempt?

Reverse Array

Ian has been given an array **A** of length **N** and he wants to find the sum of even positions after reversing the array. Your task is to help him find and return an integer value representing sum of the array elements present at the even positions of the reversed array.

Input Specification:

input1 : A reversed integer array A
input2 : An integer N, representing length of the array.

Output Specification:

Return an integer value representing sum of the array elements present at the even positions of the array.

Example 1:

input1 : {10,20,30,40,50,60}
input2 : 6

PYTHON3 Compiler: Python 3.11

```python

# Read only region start
class UserMainCode(object):
    @classmethod
    def evensum(cls, input1, input2):
        '''
        input1 : int[]
        input2 : int

        Expected return type : int
        '''
        # Read only region end
        # write code here
        x=input1[::-1]
        return sum([x[i] for i in range(input2) if i%2==0])
```

Use Custom Input

Compile and Test

Submit Code

1. Coding

Attempted: 2/2

Canopy Area

You are developing a feature for an environmental awareness app that helps users to know how much area their tree's shadow covers. You have the distance **D** from a tree's trunk to the edge of the shadow. Your task is to calculate and return an integer value representing the shadow area of the canopy.

Note *- Round off the result to nearest integer.*

Input Specification:

input1 : An integer value D, representing the distance from the tree trunks to the edge of shadow.

Output Specification:

Return an integer value representing the shadow area of the canopy.

Example 1:

input1 : 5

Output : 78

Explanation:
Here, D = 5. So, area of the canopy would be 3.14*5*5=78.5. Therefore, **78** will be returned as output.

PYTHON3 | Compiler: Python 3.11

```python

# Read only region start
class UserMainCode(object):
    @classmethod
    def canopyArea(cls, input1):
        '''
        input1 : int

        Expected return type : int
        '''
        # Read only region end
        # Write code here
        A=3.14*input1*input1
        if A-int(A)>0.5:
            return int(A)+1
        else:
            return int(A)


```

intelliSense has loaded

Use Custom Input

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Maximize Pair Product

Noah is given an integer array **A** of length **N**. He must perform the following operations:

- Select any integer pair having sum equal to 18 from the array.
- Select the pair with maximum product such that the first element of the pair is greater than the second element of the pair.

Your task is to help Noah find and return a pair in the form of an integer array, which satisfies the mentioned conditions.

Input Specification:

input1 : An integer value N, representing the size of array A.
input2 : An integer array A.

Output Specification:

Return a pair in the form of an integer array, which satisfies the

Attempted: 1/2

PYTHON3 | Compiler: Python 3.11

```
        Expected return type : int[]
        ...
        # Read only region end
        # Write code here
        arr=sorted(input2)
        d=0
        for i in range(input1):
            if 18-arr[i] in arr[i+1:] and arr[i]*(18-arr[i])>d:
                d=arr[i]*(18-arr[i])
                x=[18-arr[i],arr[i]]
        return x
```

Close Custom Input | Compile and Test | Submit Code

Campus mining 2 - Coding 2024 - 18

3:24

Question 2

Revisit Later

How to Attempt?

Alice and String

Alice has a peculiar fondness for strings without any interruptions. She considers "." as an interruption. You are given a string **S** and your task is to find and return the length of the longest uninterrupted substring to match alices' fondness.

Input Specification:

input1 : A string value S.

Output Specification:

Return an integer value representing the length of the longest uninterrupted substring to match alices' fondness.

Example 1:

input1 : abc.b.cc

Output : 3

Explanation:

PYTHON3 Compiler: Python 3.11

```python

# Read only region start
class UserMainCode(object):
    @classmethod
    def longestSubstring(cls, input1):
        '''
        input1 : string

        Expected return type : int
        '''
        # Read only region end
        arr=input1.split(".")
        max_len=0
        for word in arr:
            if len(word)>max_len:
                max_len=len(word)
        return max_len

```

Use Custom Input

Coding

Question 1

Revisit Later

How to Attempt?

Second Occurrence

Charles is given an array **A**. He wants to find the count of occurrence of second largest element in the array. Your task is to help him find and return an integer value representing the count of occurrence of the second largest element in an array.

Note:

- If the array contains the same elements, then return 0.
- The array has only consecutive elements

Input Specification:

input1 : An integer N, representing length of array.
input2 : An integer array A.

Output Specification:

Return an integer value representing the count of occurrence of the second largest element in an array.

Example 1:

input1 : 8
input2 : {1, 2, 3, 4, 4, 5, 5, 5}

Attempted 1/1

PYTHON3

Compiler Python 3.11

```python

# Read only region start
class UserMainCode(object):
    @classmethod
    def occurance(cls, input1, input2):
        '''
        input1 : int
        input2 : int[]

        Expected return type : int
        '''
        # Read only region end
        # Write code here
        x=list(set(input2))
        if len(x)<=1:
            return 0
        x.sort()
        second=x[-2]
        return input2.count(second)


```

Use Custom Input

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3:24

Attempted 1/1

Question 1

Revisit Later

How to Attempt?

The Clock Problem

Your friend has problem in reading the time if a clock follows 24-hour format, so you decide to help him out. You have two integers **X** and **Y**. Your task is to find and return an integer value representing the product of these two integers in the 12-hour system.

Input Specification:

input1 : An integer value X
input2 : An integer value Y

Output Specification:

Return an integer value representing the product of the two integers in the 12-hour system.

Example 1:

input1 : 4
input2 : 5

Output : 4

PYTHON3 | Compiler: Python 3.11

```python

# Read only region start
class UserMainCode(object):
    @classmethod
    def clockProblem(cls, input1, input2):
        '''
        input1 : int
        input2 : int

        Expected return type : int
        '''
        # Read only region end
        # Write code here
        t=input1*input2
        if t>12:
            return t-12
        else:
            return t
```

Use Custom Input

Compile and R

3:24

Question 1

Revisit Later

How to Attempt?

Even Odd

Jack has an array **A** of length **N**. He wants to label whether the number in the array is even or odd. Your task is to help him find and return a string with labels even or odd in sequence according to which the numbers appear in the array.

Input Specification:

input1 : An integer array A, representing the array of numbers
input2 : A integer N, representing the length of array

Output Specification:

Return a string with labels even or odd in sequence according to which the numbers appear in the array.

Example 1:

input1 : [1,2,3,4,5,6]
input2 : 6

Attempted 2/2

PYTHON3 Compiler Python 3.11

```python
class UserMainCode(object):
    @classmethod
    def evenOdd(cls, input1, input2):
        '''
        input1 : int[]
        input2 : int

        Expected return type : string
        '''
        # Read only region end
        # Write code here
        res=""
        for num in input1:
            if num%2==0:
                res+="even"
            else:
                res+="Odd"
        return res
```

Use Custom Input

Question 1

Revisit Later

How to Attempt?

Special Fibonacci

Alex is exploring a series and she came across a special series, in which

- f(N) = f(N-1) * f(N-1) + f(N-2) * f(N-2)
- where f(0) = 1, f(1) = 1

Your task is to help Alex find and return an integer value, representing the Nth number in this special series.

Note: *Return the output modulo 47.*

Input Specification:

input1 : An integer value N.

Output Specification:

Return an integer value, representing the Nth number in this special series.

Attempted 1/2

```
class UserMainCode(object):
    @classmethod
    def specialFibonacci(cls, input1):
        '''
        input1 : int

        Expected return type : int
        '''
        # Read only region end
        # Write code here
        f=[1,1]
        for i in range(2,input1+1):
            f.append((f[i-1]*f[i-1])%47 + (f[i-2]*f[i-2])%47
        return f[input1]%47
        pass
```

Use Custom Input

Compile and Test

Code Execution Code History

1. Coding

1 2

Attempted: 2/2

Qualifying Score

There is a competition in a school. A qualifying score of 35 marks or more has been set as the cut-off to take part in this competition.

There are **N** subjects taught in a class. The marks obtained in each subject in semesters 1 and 2 are given in the form of two arrays **S1** and **S2** respectively. The qualifying score is calculated in the following way:

- Step 1: Subtract the marks obtained in the ith subject in Semester 1 from the marks obtained in the ith subject in Semester 2, i.e., S2[i] - S1[i], where i = 0, 1, 2...
- Step 2: Add the marks of upto **P** subjects with the maximum scores obtained after the subtraction in Step 1. This will give a student's qualifying score. The aim is to get a score equal to or greater than 35.

If the qualifying score is greater than or equal to 35 then the student qualifies to participate in the competition, else they are disqualified. Your task is to find and return a string value, representing the result 'Qualified' or 'Disqualified' followed by the score achieved (separated by a space).

Input Specification:

input1 : An integer value N, representing the number of subjects taught

PYTHON3 | Compiler: Python 3.11

```
Expected return type : string
'''
# Read only region end
# Write code here
p=[input4[i]-input3[i] for i in range(input1)]
pos=[num for num in p if num>0]
p.sort(reverse=True)
if len(pos)>=input2:
    res=sum(p[:input2])
else:
    res=sum(pos)
if res>=35:
    return "Qualified "+str(res)
else:
    return "Disqualified "+str(res)
```

Use Custom Input

Compile and Test

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Message:

1. Coding

1 2

Attempted: 1/2

Question 1

Revisit Later

How to Attempt?

Bitwise Operation

You are given two integers **A** and **B**. Your task is to find and return an integer representing the value of their bitwise OR operation.

Note: *The bitwise OR is a binary operator which returns 1 if at least one of the bits is 1, otherwise it returns 0. Also, this operator always evaluates both the operands.*

- 1 OR 0 = 1
- 0 OR 1 = 1
- 1 OR 0 = 1
- 1 OR 1 = 1

PYTHON3 | Compiler: Python 3.11

```
4    @classmethod
5    def bitwiseOR(cls, input1, input2):
6        '''
7        input1 : int
8        input2 : int
9
10       Expected return type : int
11       '''
12       # Read only region end
13       # Write code here
14       return input1|input2
15
16
```

Use Custom Input

Compile and Test

1. Coding

1 2

Attempted: 2/2

File Version

You are given a string array **S** that contains the names of some files along with their versions. Your task is to find and return an integer value representing the latest version out of all the files that are correctly named in the array. A file is considered correct if it follows the format of the file named as "File_X" (where X represents the file version number). Return -1 if there are no correct files in the array.

Note:

- *A file is incorrect if the name of the file does not match the format.*
- *If there is no file in the files array then also return - 1.*

Input Specification:

input1 : A string array S, representing the names of the files.
input2 : An integer value representing the size of the array.

PYTHON3 Compiler: Python 3.11

```
Expected return type : int
'''
# Read only region end
# Write code here
if input2==0:
    return -1
max_version=-1
for f in input1:
    x=f.strip().split("_")
    if x[0]=="File" and x[1].isdigit():
        max_version=max(max_version,int(
return max_version
```

Use Custom Input

Compile and

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Message:

Attempted: 2/2

Question 1 Revisit Later

How to Attempt?

Printing Job

There is a printing shop where the customers submit their print jobs at regular intervals, and each job takes a fixed amount of time to complete. You are given an integer value **N** denoting the total number of print jobs, and **X** denoting the time duration after which the next print job arrives.

Your task is to find and return an integer value representing how long the last job will have to wait in the queue considering one print will take exactly 10 minutes.

Input Specification:

input1 : An integer value N representing the number of printing jobs.
input2 : An integer value X representing the time duration after which the next print job arrives.

Output Specification:

Return an integer value representing how long the last job will have to wait in the queue. If in case there is no

PYTHON3 Compiler: Python 3.11

```python

# Read only region start
class UserMainCode(object):
    @classmethod
    def printingJob(cls, input1, input2):
        '''
        input1 : int
        input2 : int

        Expected return type : int
        '''
        # Read only region end
        # Write code here
        total = (input1-1)*10
        last= (input1-1)*input2
        wait = total - last
        if wait<=0:
            return 0
        else:
            return wait

```

Use Custom Input

Compile and Test