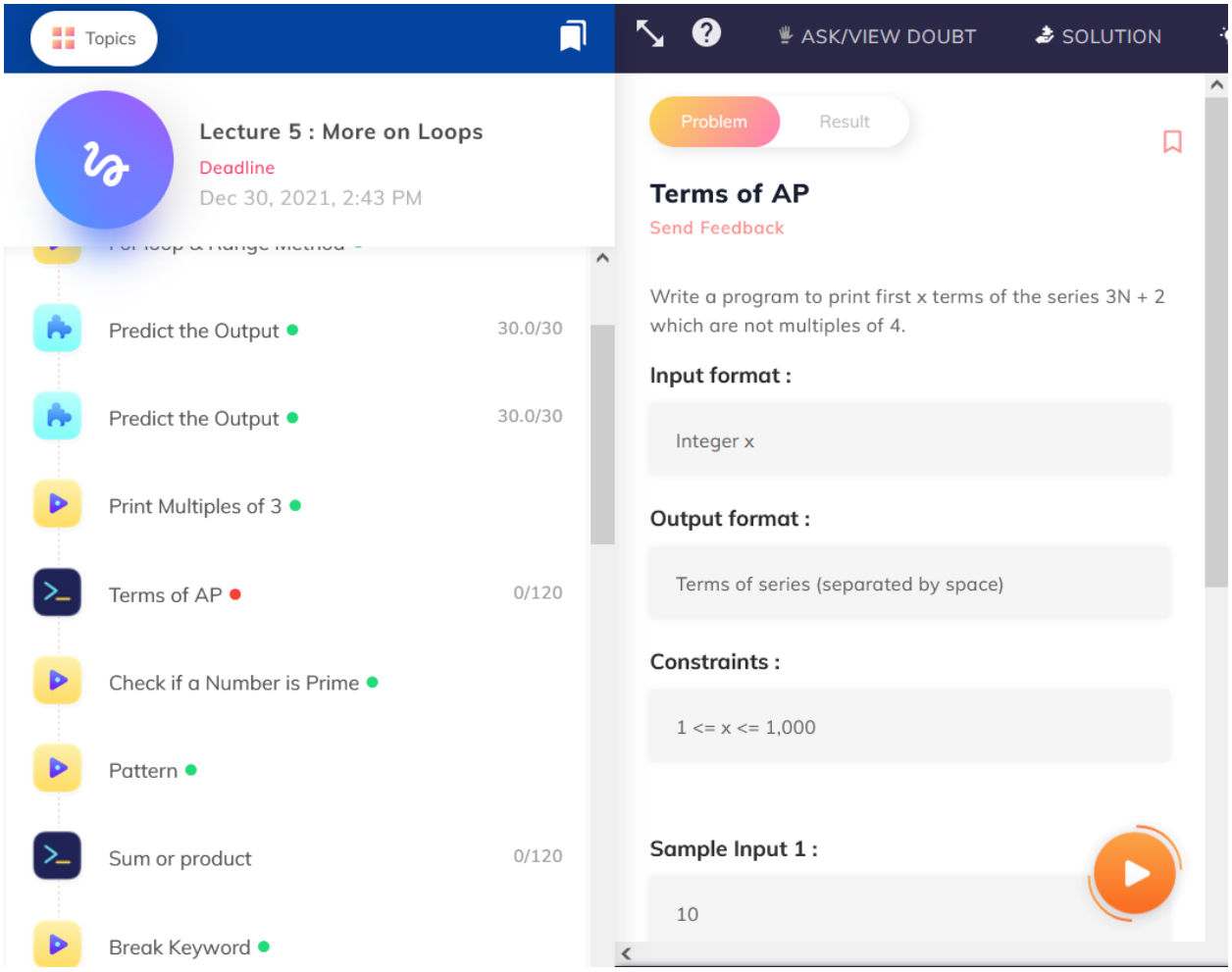
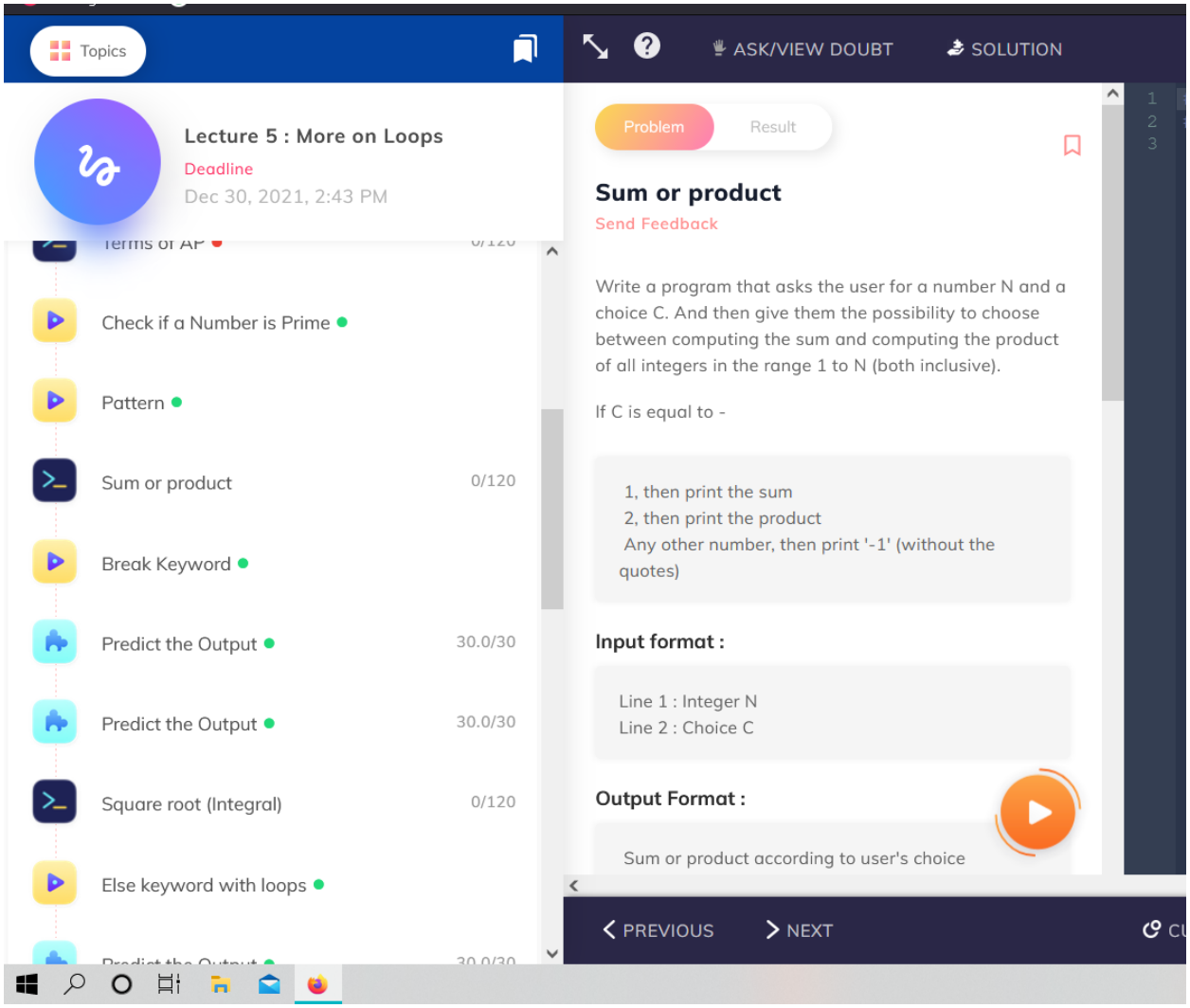
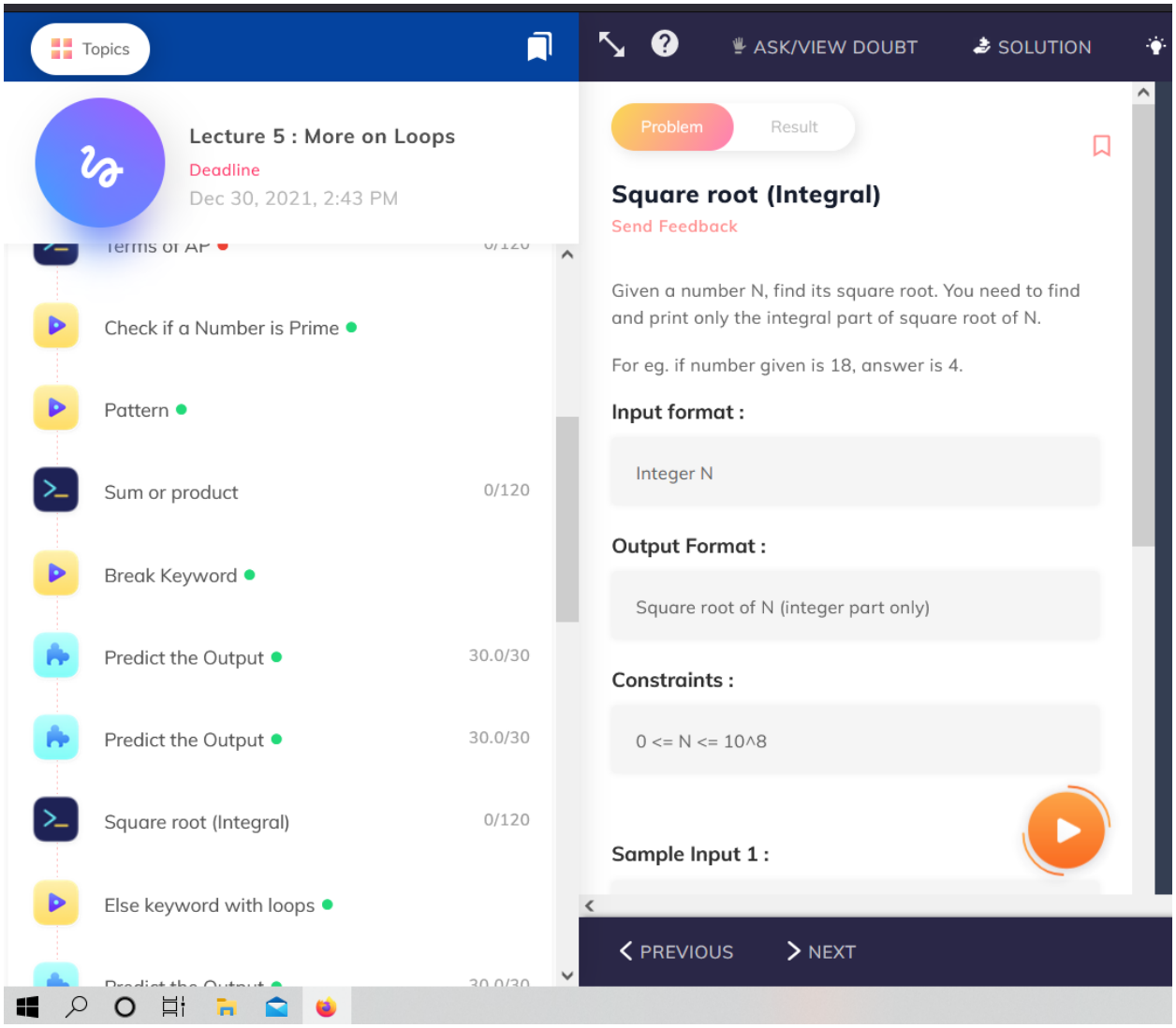
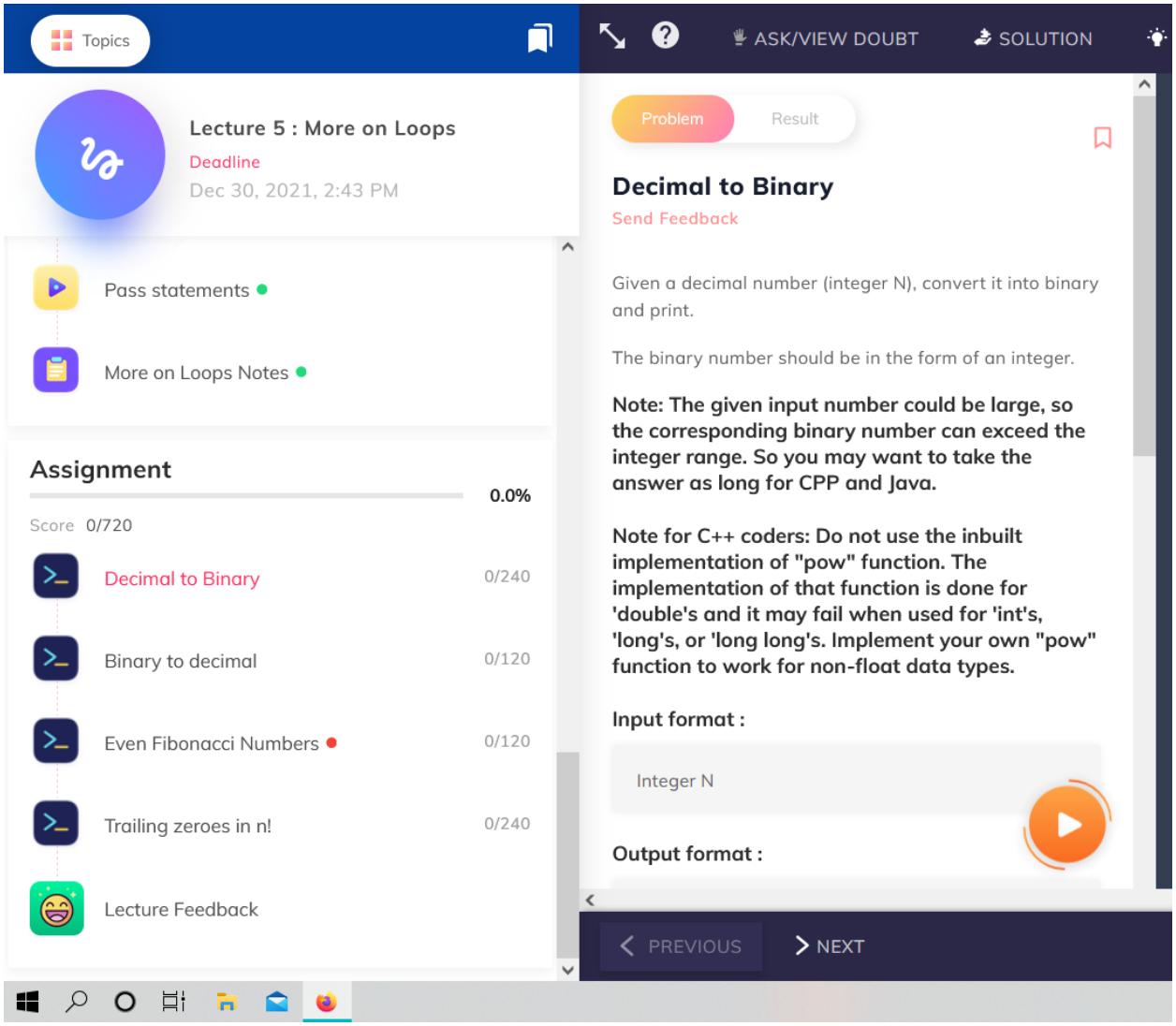
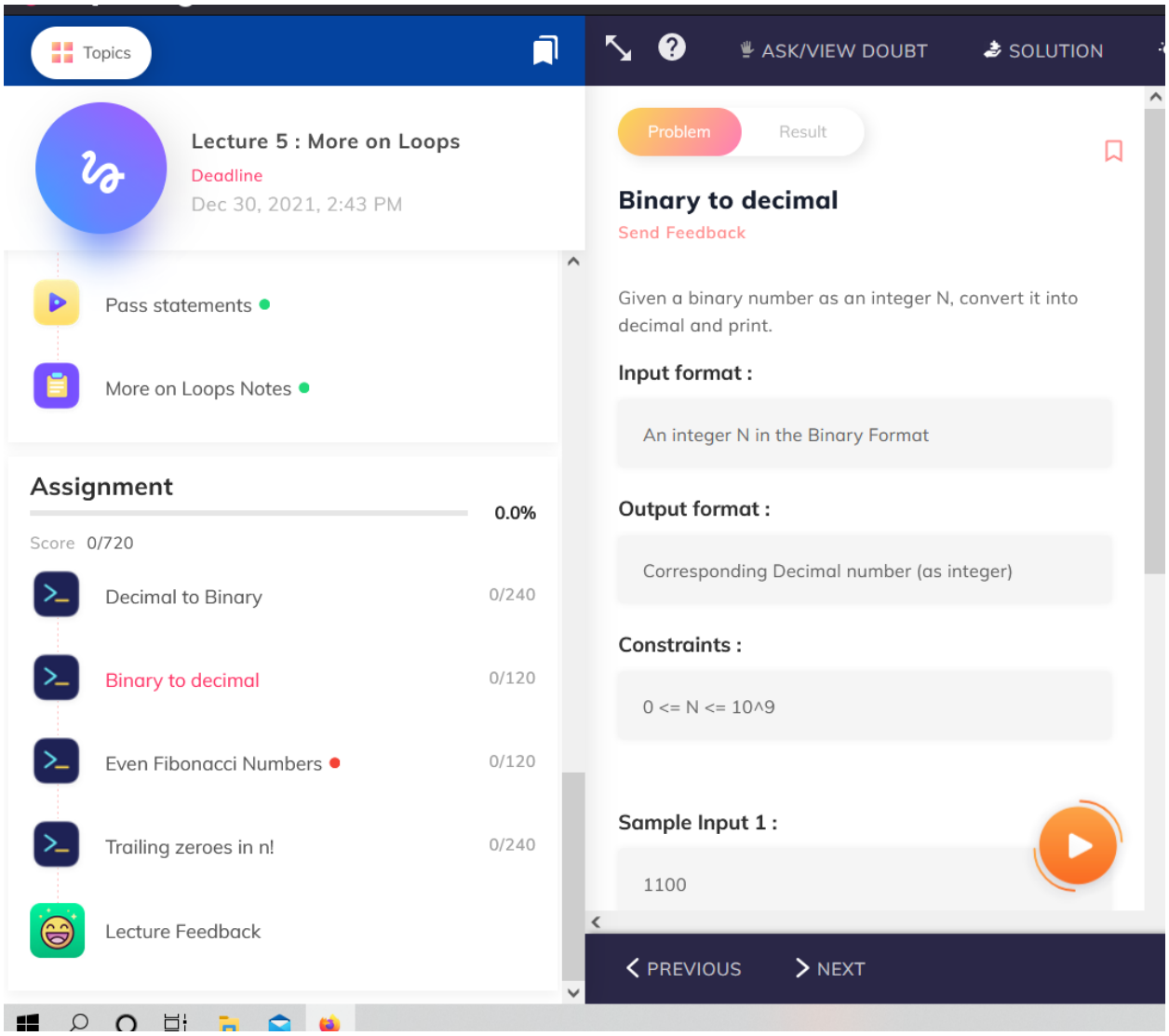
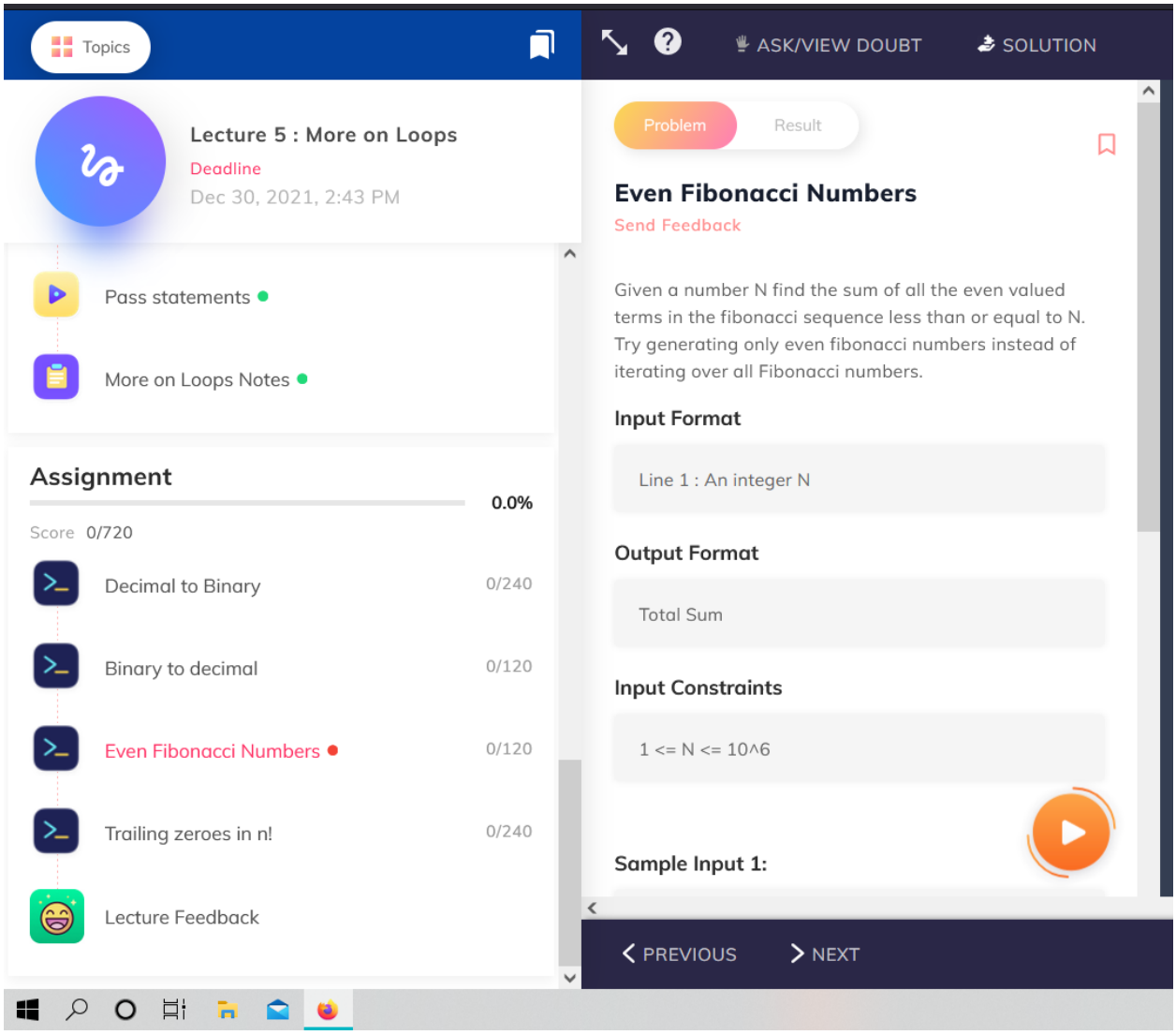

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 5 : More on Loops
Deadline
Dec 30, 2021, 2:43 PM
Predict the Output
30.0/30
Predict the Output
30.0/30
Print Multiples of 3
Terms of AP
0/120
Check if a Number is Prime
Pattern
Sum or product
0/120
Break Keyword
Problem
Result
Terms of AP
Send Feedback
Write a program to print first x terms of the series 3N + 2 which are not multiples of 4.
Input format :
Integer x
Output format :
Terms of series (separated by space)
Constraints :
1 <= x <= 1,000
Sample Input 1 :
10

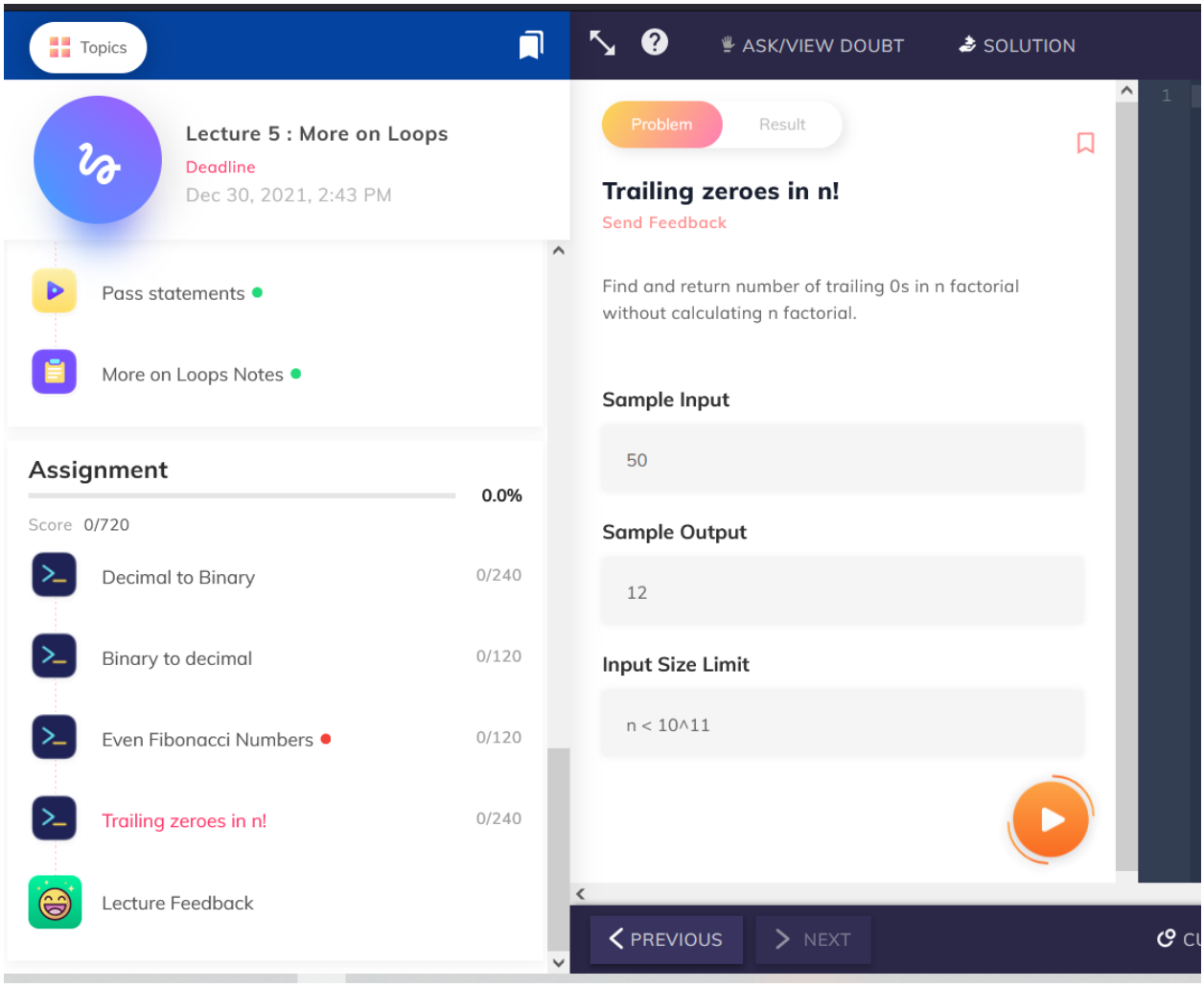

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 5 : More on Loops
Deadline
Dec 30, 2021, 2:43 PM
Check if a Number is Prime
Pattern
Sum or product 0/120
Break Keyword
Predict the Output 30.0/30
Predict the Output 30.0/30
Square root (Integral) 0/120
Else keyword with loops
Problem
Result
Sum or product
Send Feedback
Write a program that asks the user for a number N and a choice C. And then give them the possibility to choose between computing the sum and computing the product of all integers in the range 1 to N (both inclusive).
If C is equal to -
1, then print the sum
2, then print the product
Any other number, then print '-1' (without the quotes)
Input format :
Line 1 : Integer N
Line 2 : Choice C
Output Format :
Sum or product according to user's choice
PREVIOUS
NEXT

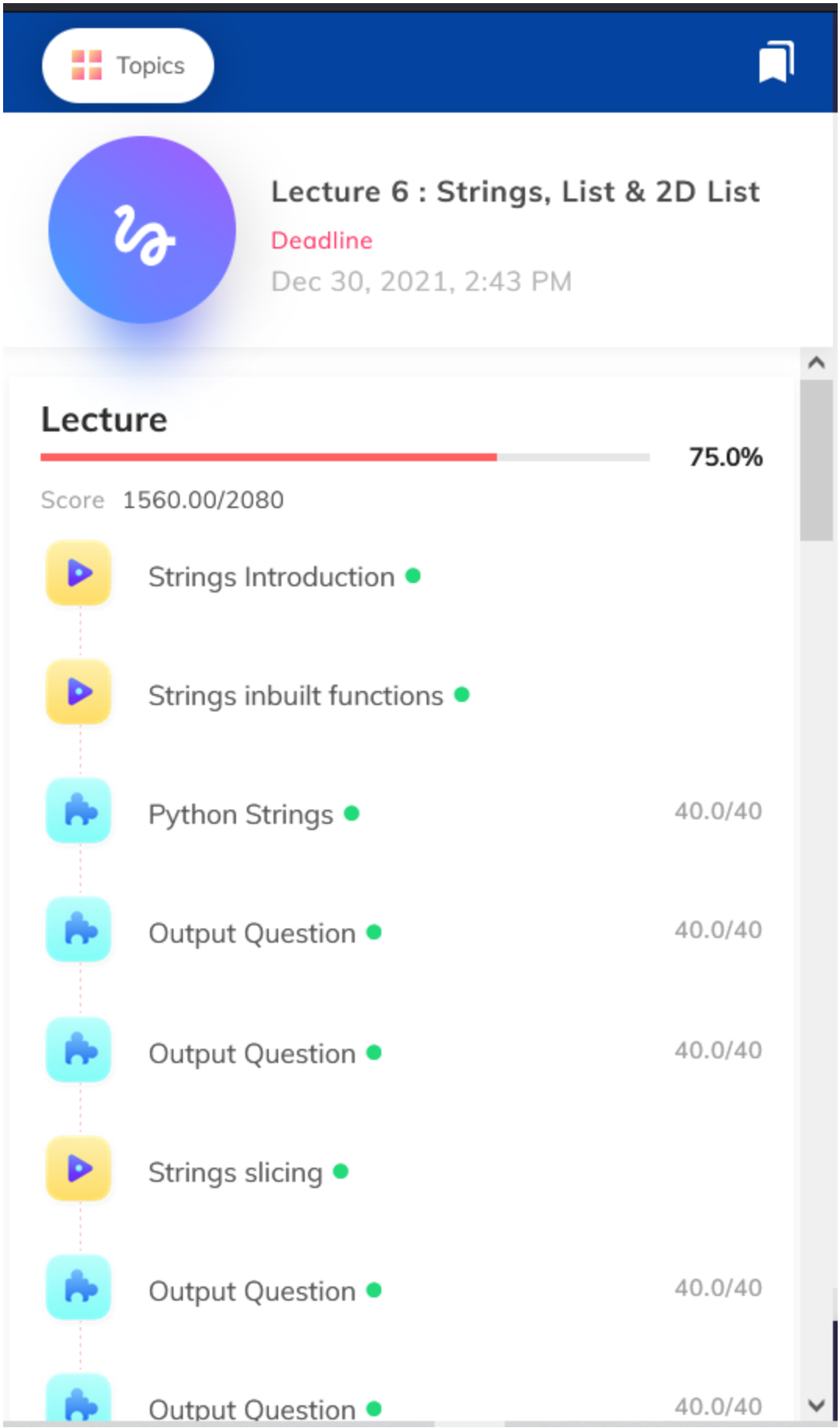

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 5 : More on Loops
Deadline
Dec 30, 2021, 2:43 PM
Terms of AP
Check if a Number is Prime
Pattern
Sum or product
0/120
Break Keyword
Predict the Output
30.0/30
Predict the Output
30.0/30
Square root (Integral)
0/120
Else keyword with loops
Problem
Result
Square root (Integral)
Send Feedback
Given a number N, find its square root. You need to find and print only the integral part of square root of N.
For eg. if number given is 18, answer is 4.
Input format :
Integer N
Output Format :
Square root of N (integer part only)
Constraints :
0 <= N <= 10^8
Sample Input 1 :
PREVIOUS
NEXT

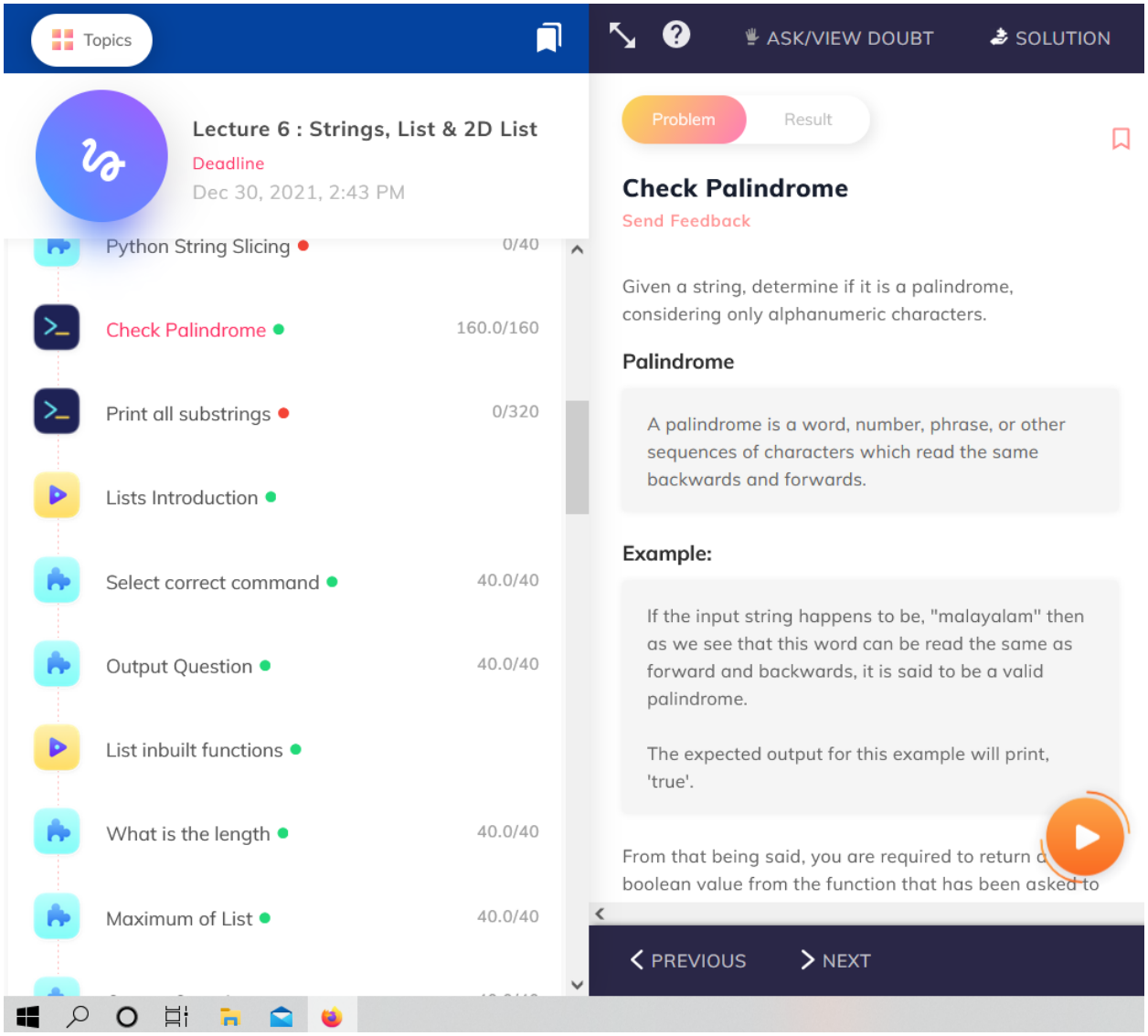

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 5 : More on Loops
Deadline
Dec 30, 2021, 2:43 PM
Pass statements
More on Loops Notes
Assignment
0.0%
Score 0/720
Decimal to Binary 0/240
Binary to decimal 0/120
Even Fibonacci Numbers 0/120
Trailing zeroes in n! 0/240
Lecture Feedback
Problem
Result
Decimal to Binary
Send Feedback
Given a decimal number (integer N), convert it into binary and print.
The binary number should be in the form of an integer.
Note: The given input number could be large, so the corresponding binary number can exceed the integer range. So you may want to take the answer as long for CPP and Java.
Note for C++ coders: Do not use the inbuilt implementation of "pow" function. The implementation of that function is done for 'double's and it may fail when used for 'int's, 'long's, or 'long long's. Implement your own "pow" function to work for non-float data types.
Input format :
Integer N
Output format :
PREVIOUS
NEXT

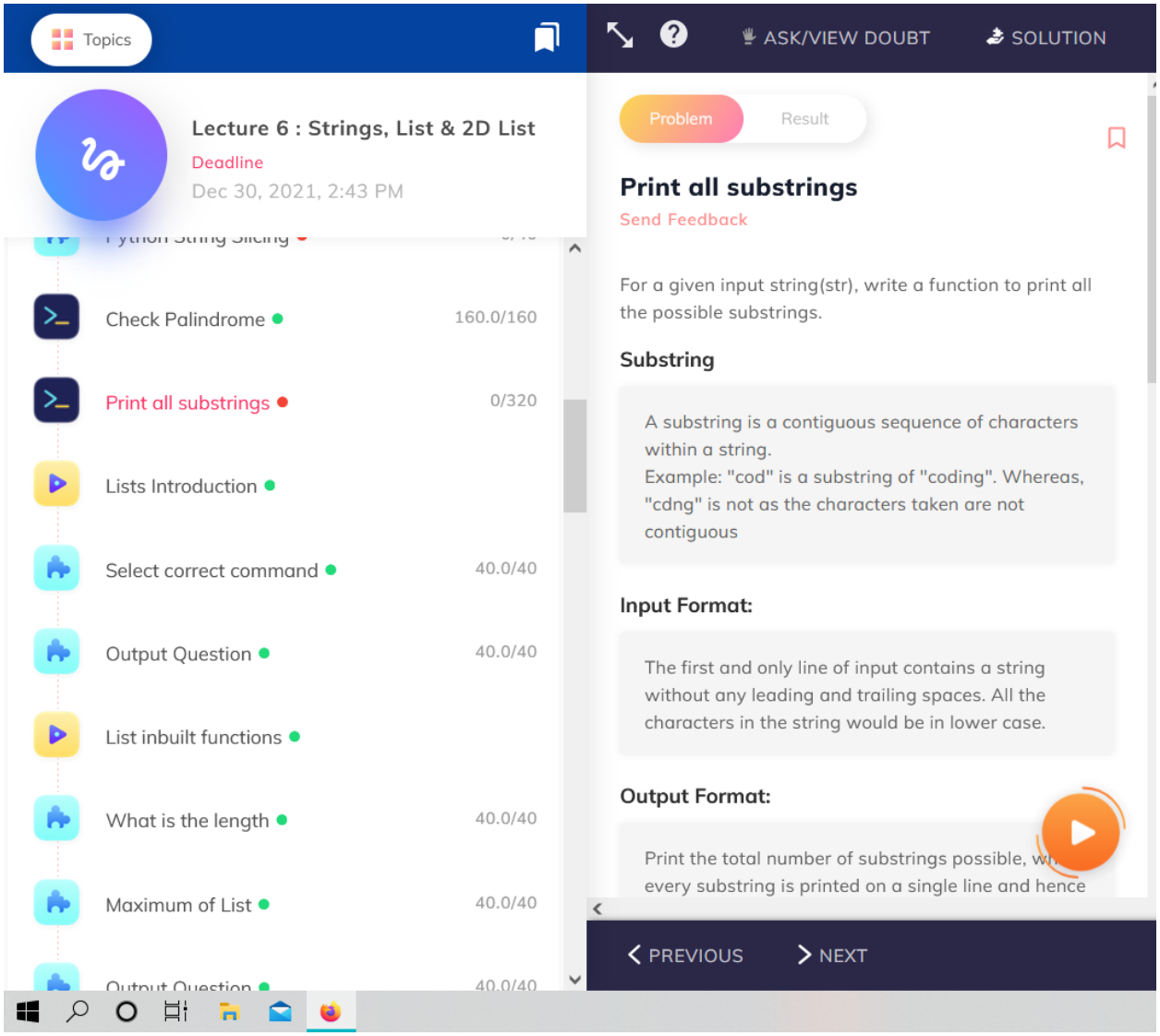

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 5 : More on Loops
Deadline
Dec 30, 2021, 2:43 PM
Pass statements
More on Loops Notes
Assignment
0.0%
Score 0/720
Decimal to Binary 0/240
Binary to decimal 0/120
Even Fibonacci Numbers 0/120
Trailing zeroes in n! 0/240
Lecture Feedback
Problem
Result
Binary to decimal
Send Feedback
Given a binary number as an integer N, convert it into decimal and print.
Input format :
An integer N in the Binary Format
Output format :
Corresponding Decimal number (as integer)
Constraints :
0 <= N <= 10^9
Sample Input 1 :
1100
PREVIOUS
NEXT

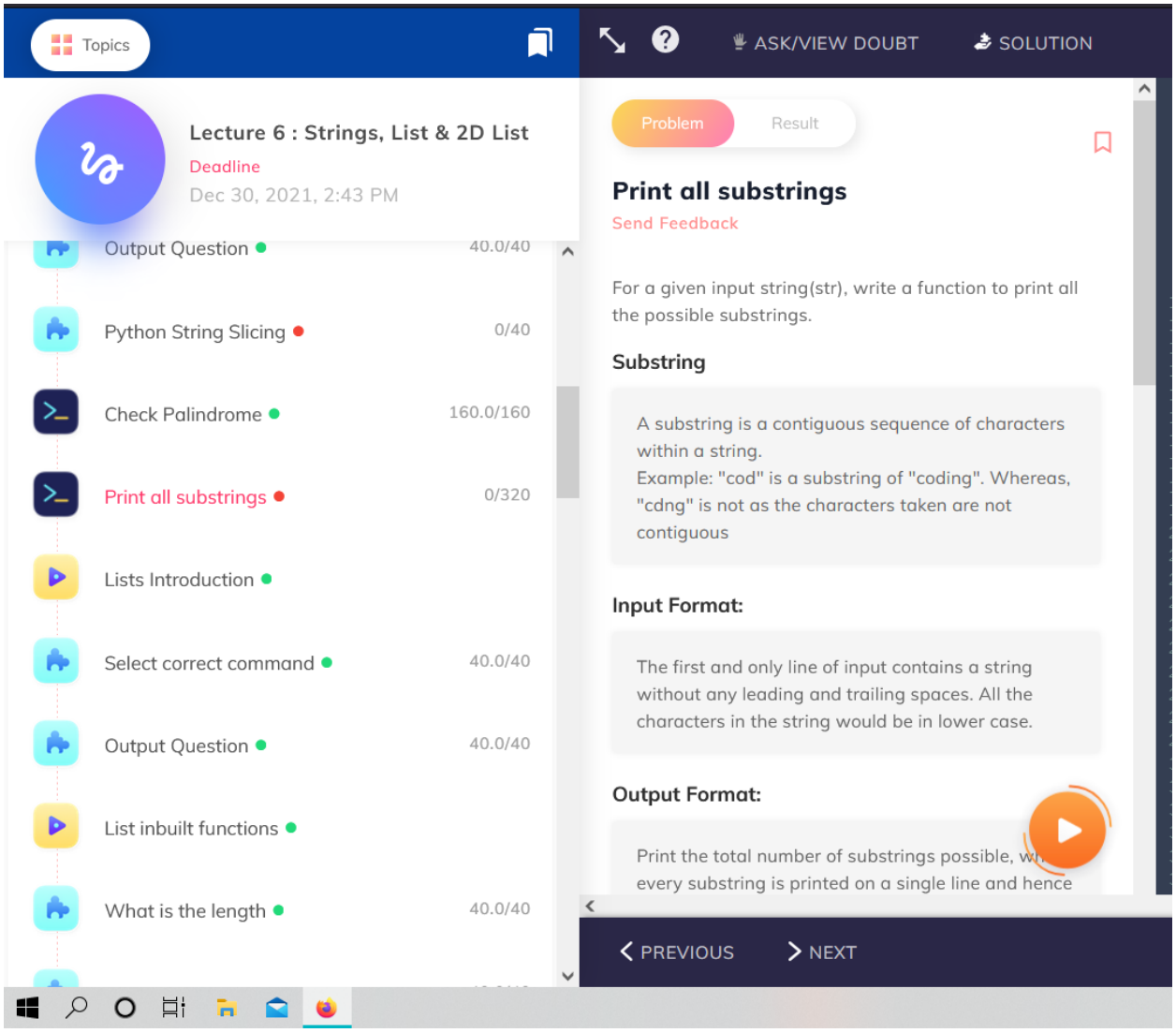

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 5 : More on Loops
Deadline
Dec 30, 2021, 2:43 PM
Pass statements
More on Loops Notes
Assignment
0.0%
Score 0/720
Decimal to Binary 0/240
Binary to decimal 0/120
Even Fibonacci Numbers 0/120
Trailing zeroes in n! 0/240
Lecture Feedback
Problem
Result
Even Fibonacci Numbers
Send Feedback
Given a number N find the sum of all the even valued terms in the fibonacci sequence less than or equal to N. Try generating only even fibonacci numbers instead of iterating over all Fibonacci numbers.
Input Format
Line 1 : An integer N
Output Format
Total Sum
Input Constraints
1 <= N <= 10^6
Sample Input 1:
PREVIOUS
NEXT


Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 5 : More on Loops
Deadline
Dec 30, 2021, 2:43 PM
Pass statements
More on Loops Notes
Assignment
0.0%
Score 0/720
Decimal to Binary 0/240
Binary to decimal 0/120
Even Fibonacci Numbers 0/120
Trailing zeroes in n! 0/240
Lecture Feedback
Problem
Result
Trailing zeroes in n!
Send Feedback
Find and return number of trailing 0s in n factorial without calculating n factorial.
Sample Input
50
Sample Output
12
Input Size Limit
n < 10^11
PREVIOUS
NEXT


Topics
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Lecture
75.0%
Score 1560.00/2080
Strings Introduction
Strings inbuilt functions
Python Strings
40.0/40
Output Question
40.0/40
Output Question
40.0/40
Strings slicing
Output Question
40.0/40
Output Question
40.0/40


Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Python String Slicing 0/40
Check Palindrome 160.0/160
Print all substrings 0/320
Lists Introduction
Select correct command 40.0/40
Output Question 40.0/40
List inbuilt functions
What is the length 40.0/40
Maximum of List 40.0/40
Problem
Result
Check Palindrome
Send Feedback
Given a string, determine if it is a palindrome, considering only alphanumeric characters.
Palindrome
A palindrome is a word, number, phrase, or other sequences of characters which read the same backwards and forwards.
Example:
If the input string happens to be, "malayalam" then as we see that this word can be read the same as forward and backwards, it is said to be a valid palindrome.
The expected output for this example will print, 'true'.
From that being said, you are required to return a boolean value from the function that has been asked to
PREVIOUS
NEXT


Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Check Palindrome 160.0/160
Print all substrings 0/320
Lists Introduction
Select correct command 40.0/40
Output Question 40.0/40
List inbuilt functions
What is the length 40.0/40
Maximum of List 40.0/40
Problem
Result
Print all substrings
Send Feedback
For a given input string(str), write a function to print all the possible substrings.
Substring
A substring is a contiguous sequence of characters within a string.
Example: "cod" is a substring of "coding". Whereas, "cdng" is not as the characters taken are not contiguous
Input Format:
The first and only line of input contains a string without any leading and trailing spaces. All the characters in the string would be in lower case.
Output Format:
Print the total number of substrings possible, wh
every substring is printed on a single line and hence
PREVIOUS
NEXT


Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Output Question 40.0/40
Python String Slicing 0/40
Check Palindrome 160.0/160
Print all substrings 0/320
Lists Introduction
Select correct command 40.0/40
Output Question 40.0/40
List inbuilt functions
What is the length 40.0/40
Problem
Result
Print all substrings
Send Feedback
For a given input string(str), write a function to print all the possible substrings.
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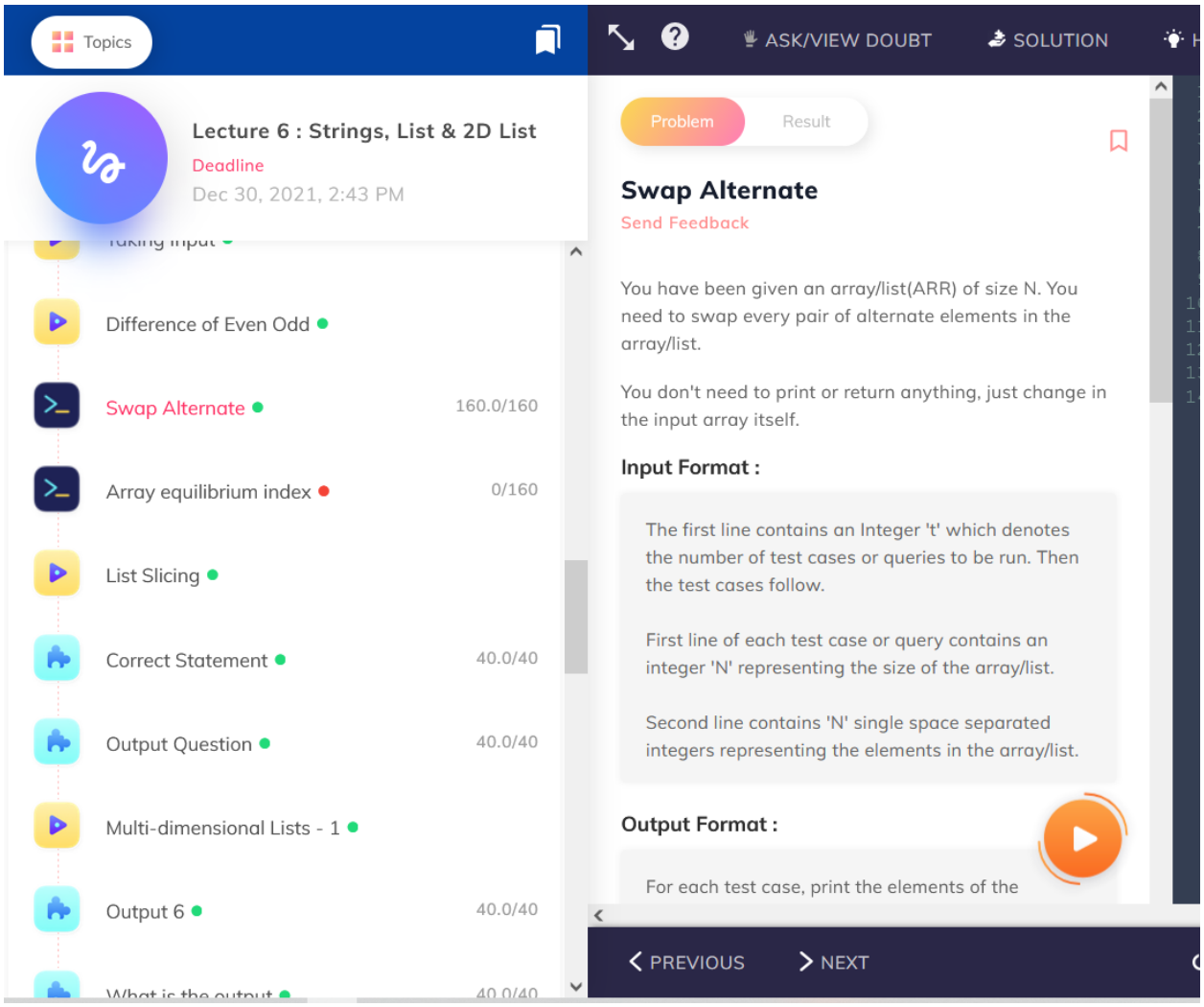
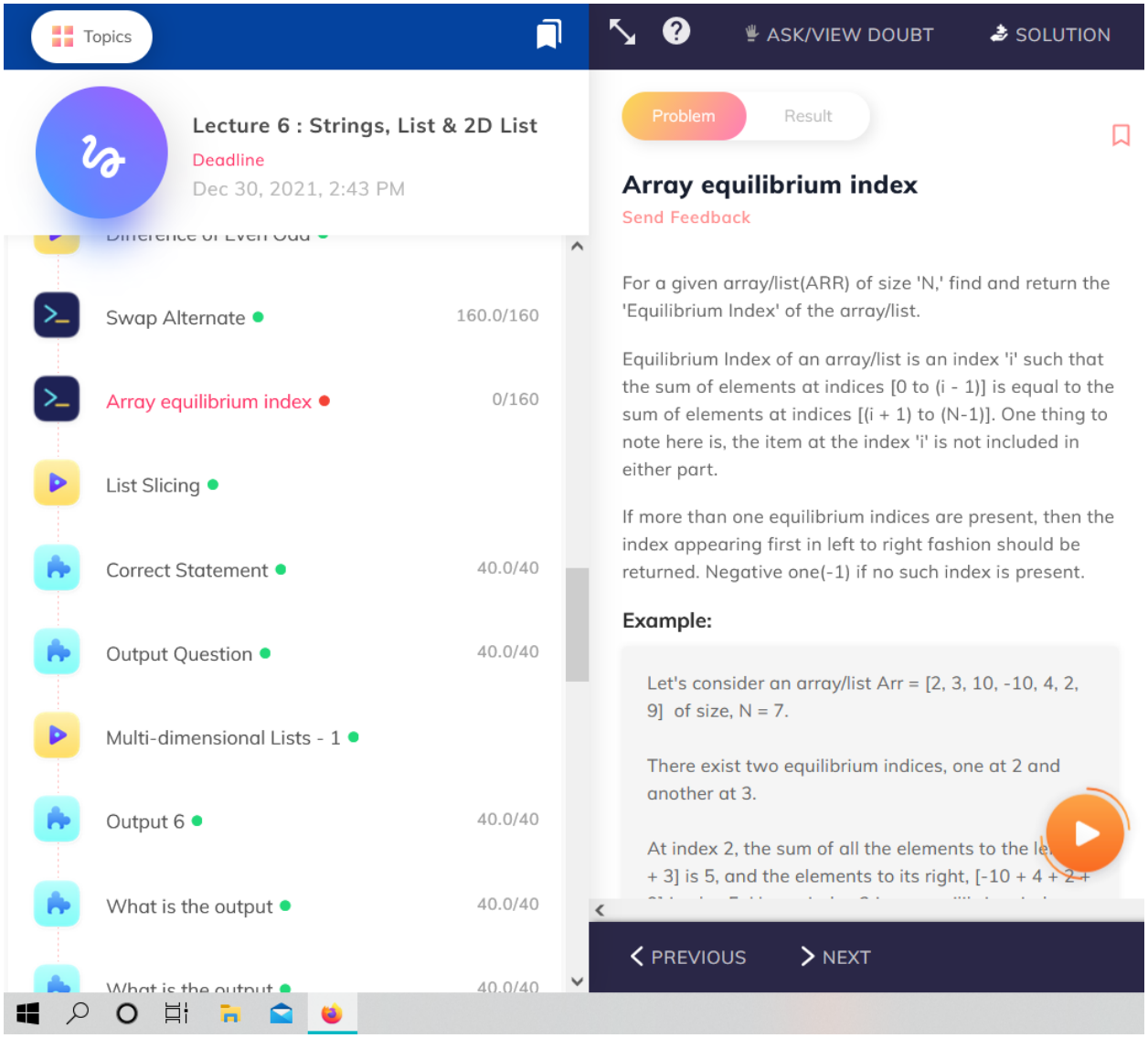
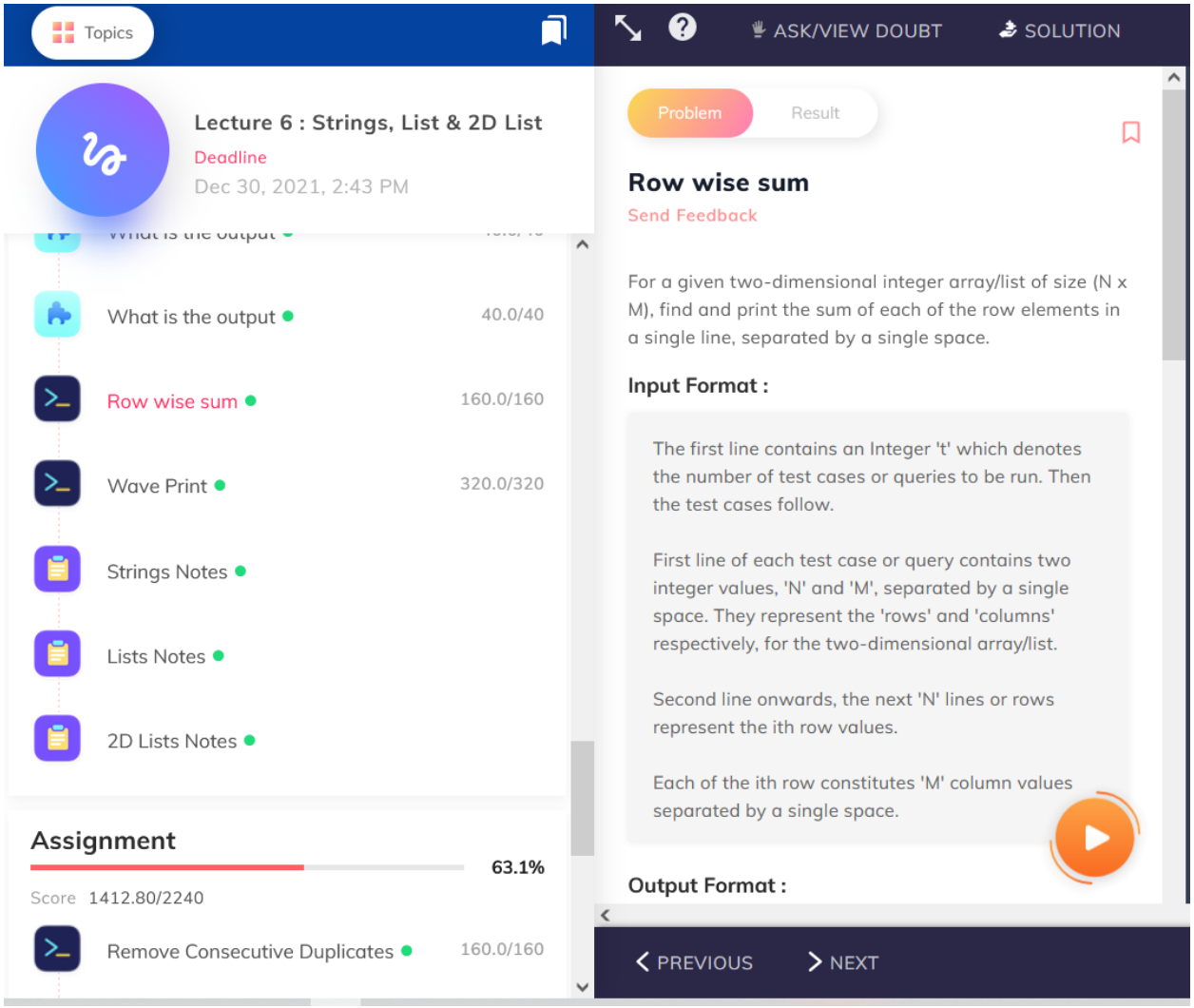
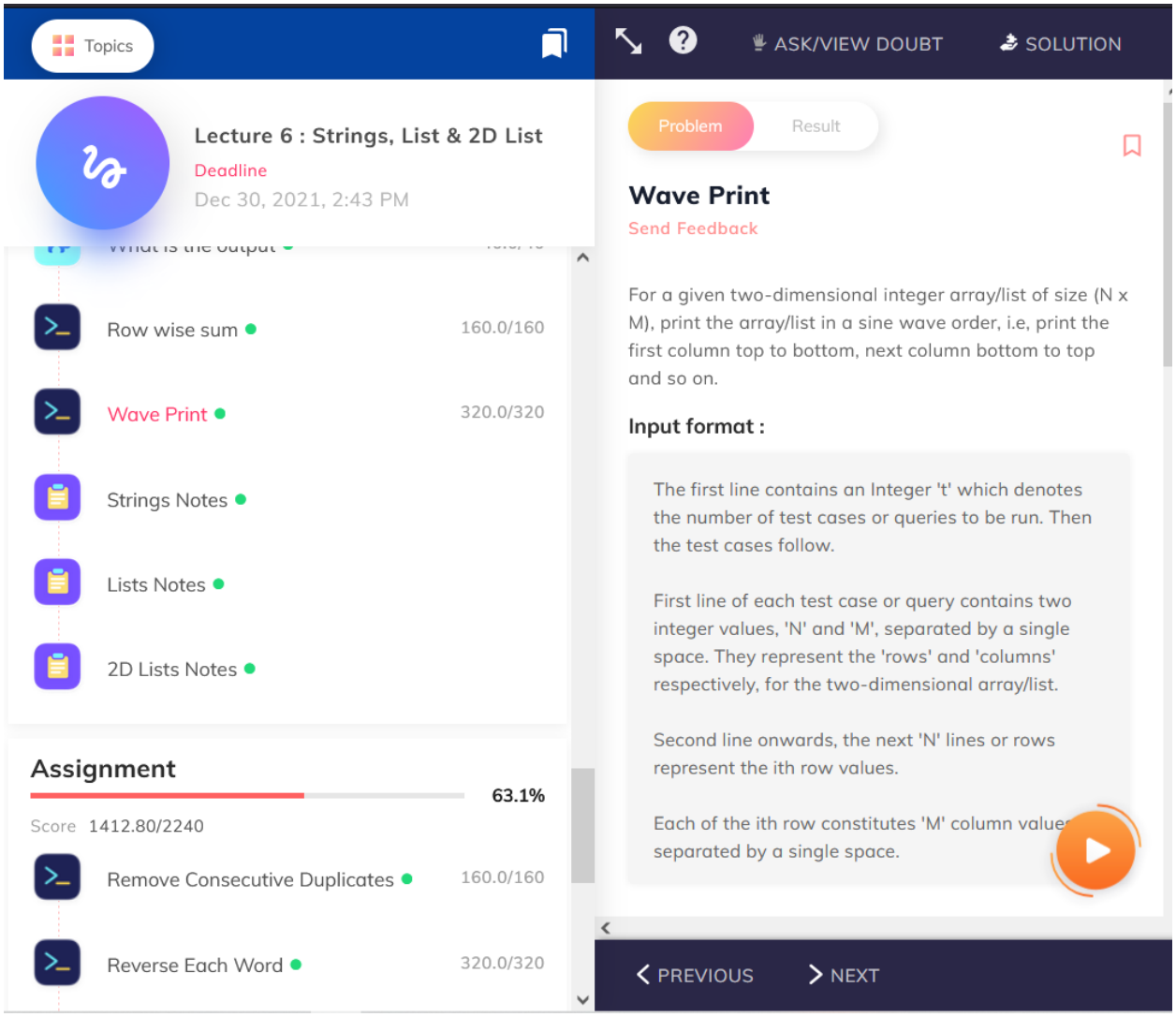
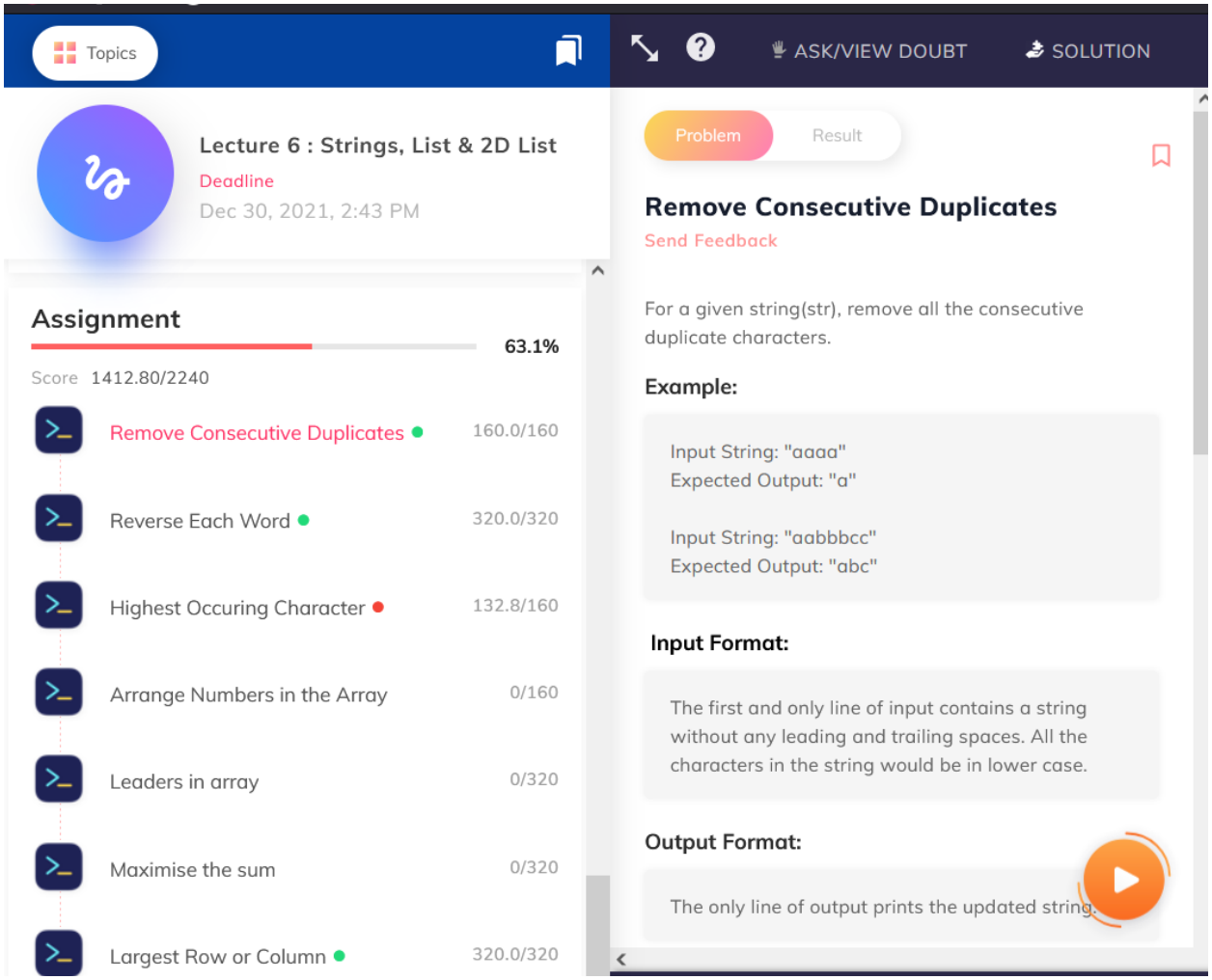
Output Format:
Print the total number of substrings possible, w
every substring is printed on a single line and hence
PREVIOUS
NEXT

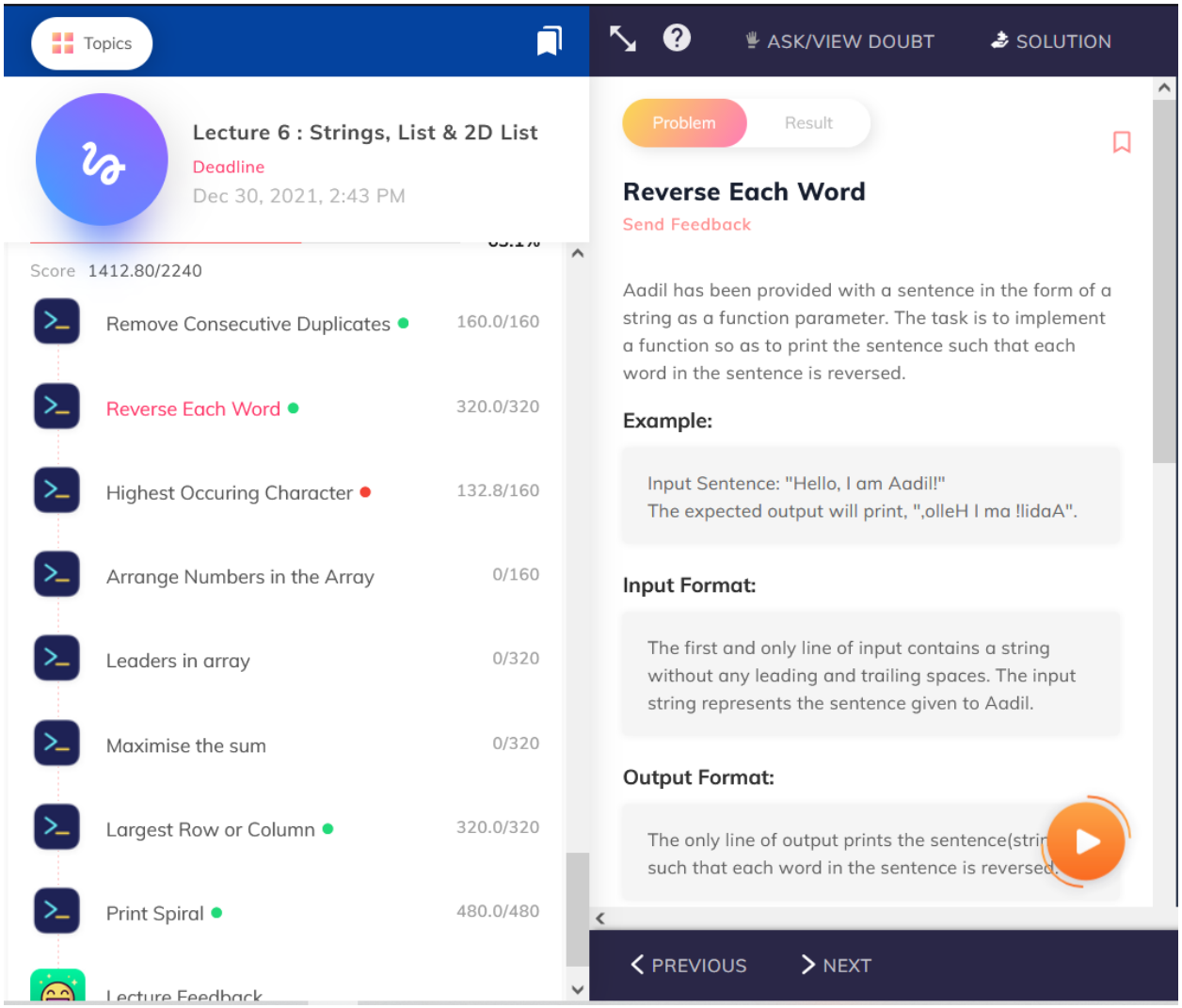

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Difference of Even Odd
Swap Alternate
160.0/160
Array equilibrium index
0/160
List Slicing
Correct Statement
40.0/40
Output Question
40.0/40
Multi-dimensional Lists - 1
Output 6
40.0/40
Problem
Result
Swap Alternate
Send Feedback
You have been given an array/list(ARR) of size N. You need to swap every pair of alternate elements in the array/list.
You don't need to print or return anything, just change in the input array itself.
Input Format :
The first line contains an Integer 't' which denotes the number of test cases or queries to be run. Then the test cases follow.
First line of each test case or query contains an integer 'N' representing the size of the array/list.
Second line contains 'N' single space separated integers representing the elements in the array/list.
Output Format :
For each test case, print the elements of the
PREVIOUS
NEXT

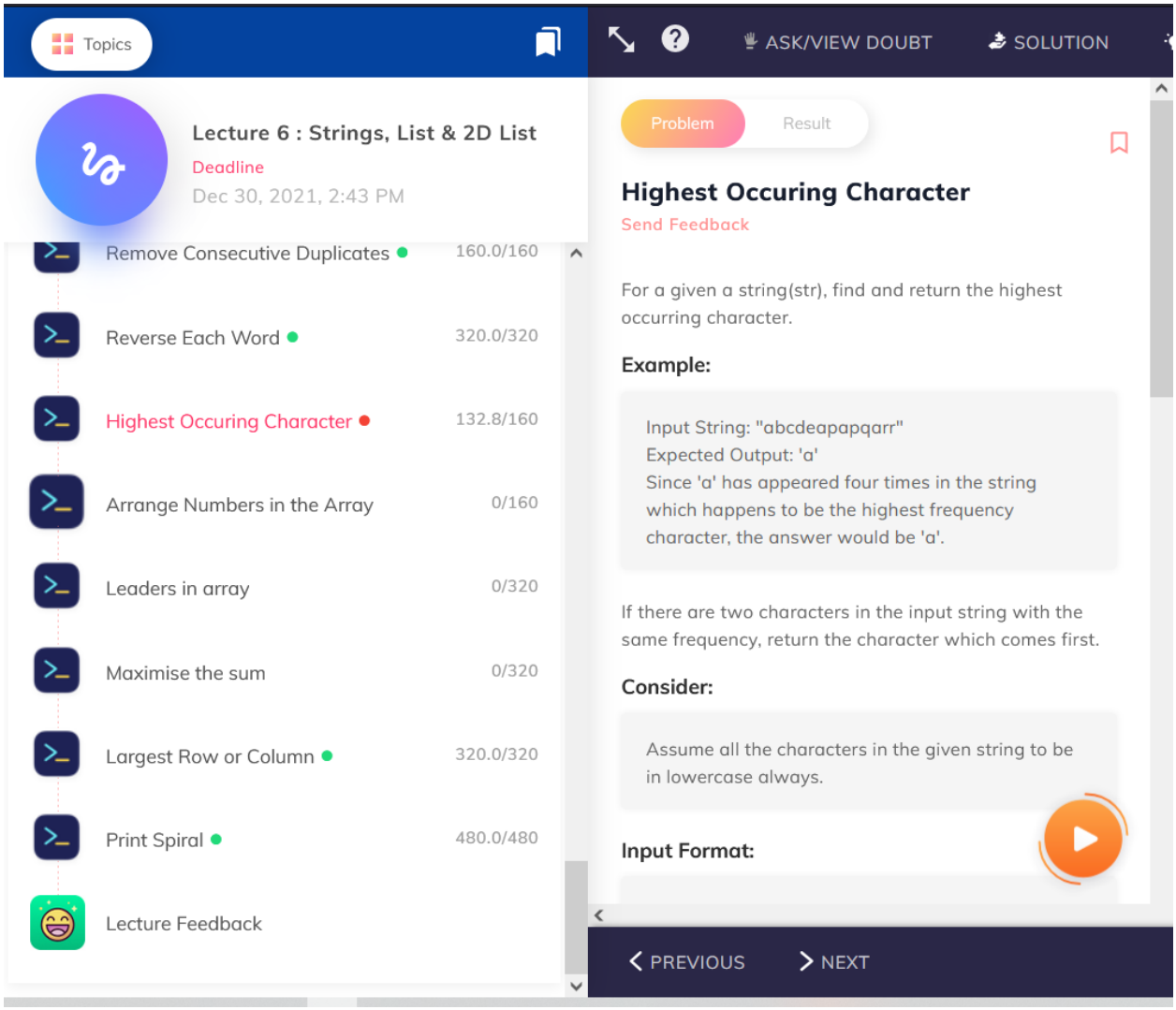

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Swap Alternate
160.0/160
Array equilibrium index
0/160
List Slicing
Correct Statement
40.0/40
Output Question
40.0/40
Multi-dimensional Lists - 1
Output 6
40.0/40
What is the output
40.0/40
Problem
Result
Array equilibrium index
Send Feedback
For a given array/list(ARR) of size 'N,' find and return the 'Equilibrium Index' of the array/list.
Equilibrium Index of an array/list is an index 'i' such that the sum of elements at indices [0 to (i - 1)] is equal to the sum of elements at indices [(i + 1) to (N-1)]. One thing to note here is, the item at the index 'i' is not included in either part.
If more than one equilibrium indices are present, then the index appearing first in left to right fashion should be returned. Negative one(-1) if no such index is present.
Example:
Let's consider an array/list Arr = [2, 3, 10, -10, 4, 2, 9] of size, N = 7.
There exist two equilibrium indices, one at 2 and another at 3.
PREVIOUS
NEXT

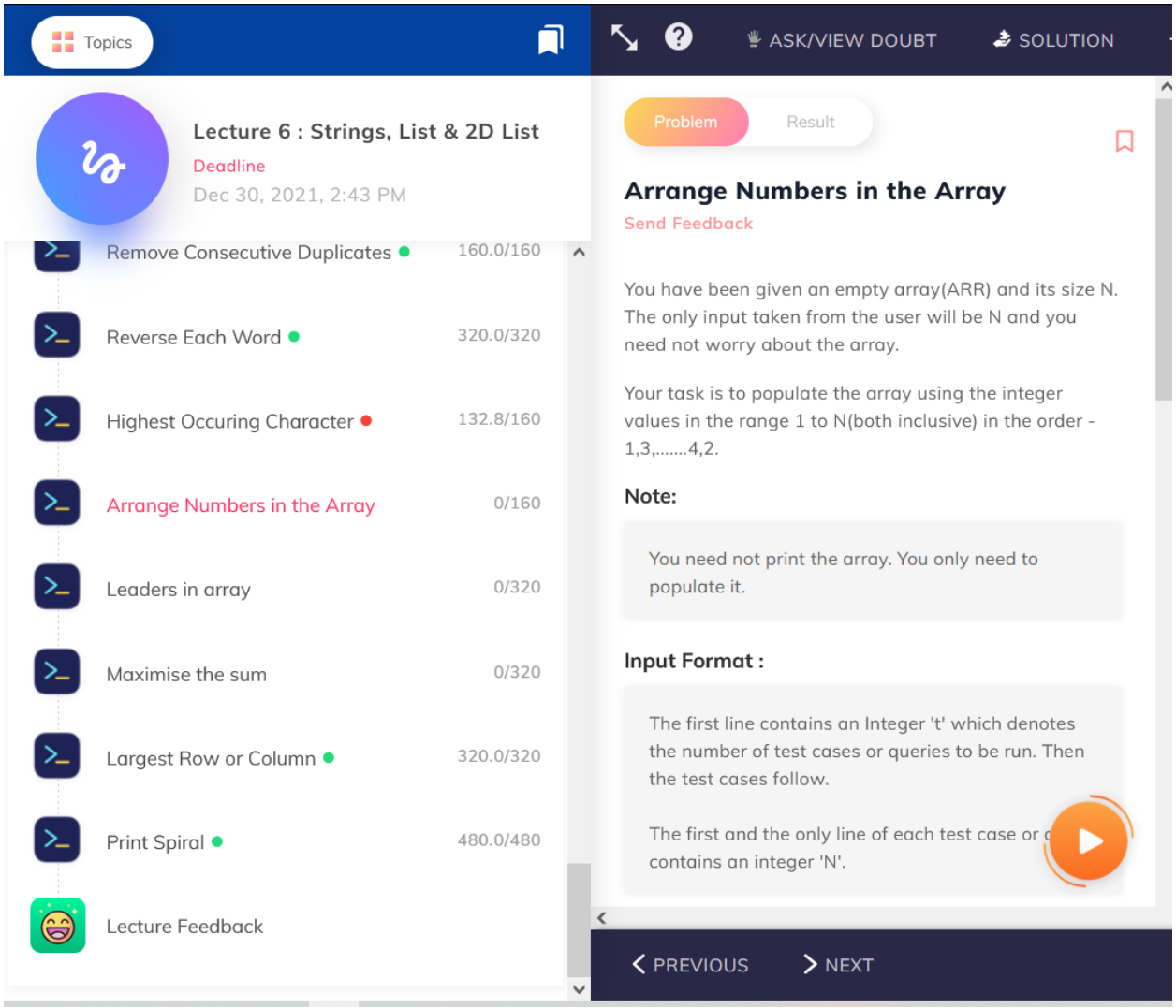

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
What is the output
40.0/40
Row wise sum
160.0/160
Wave Print
320.0/320
Strings Notes
Lists Notes
2D Lists Notes
Assignment
63.1%
Score 1412.80/2240
Remove Consecutive Duplicates
160.0/160
Problem
Result
Row wise sum
Send Feedback
For a given two-dimensional integer array/list of size (N x M), find and print the sum of each of the row elements in a single line, separated by a single space.
Input Format :
The first line contains an Integer 't' which denotes the number of test cases or queries to be run. Then the test cases follow.
First line of each test case or query contains two integer values, 'N' and 'M', separated by a single space. They represent the 'rows' and 'columns' respectively, for the two-dimensional array/list.
Second line onwards, the next 'N' lines or rows represent the ith row values.
Each of the ith row constitutes 'M' column values separated by a single space.
Output Format :
PREVIOUS
NEXT

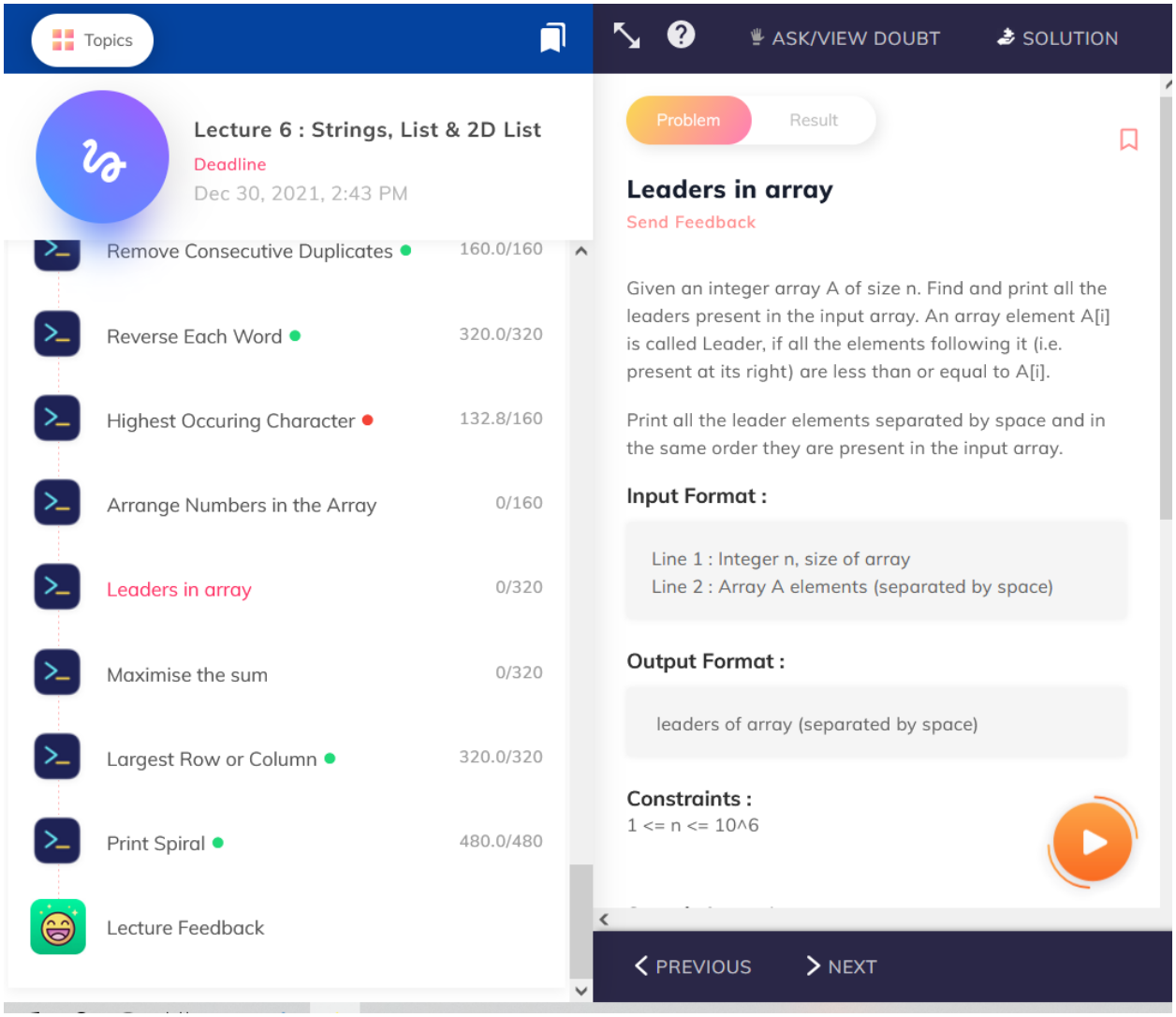

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Row wise sum
160.0/160
Wave Print
320.0/320
Strings Notes
Lists Notes
2D Lists Notes
Assignment
63.1%
Score 1412.80/2240
Remove Consecutive Duplicates
160.0/160
Reverse Each Word
320.0/320
Problem
Result
Wave Print
Send Feedback
For a given two-dimensional integer array/list of size (N x M), print the array/list in a sine wave order, i.e, print the first column top to bottom, next column bottom to top and so on.
Input format :
The first line contains an Integer 't' which denotes the number of test cases or queries to be run. Then the test cases follow.
First line of each test case or query contains two integer values, 'N' and 'M', separated by a single space. They represent the 'rows' and 'columns' respectively, for the two-dimensional array/list.
Second line onwards, the next 'N' lines or rows represent the ith row values.
Each of the ith row constitutes 'M' column value
separated by a single space.
PREVIOUS
NEXT

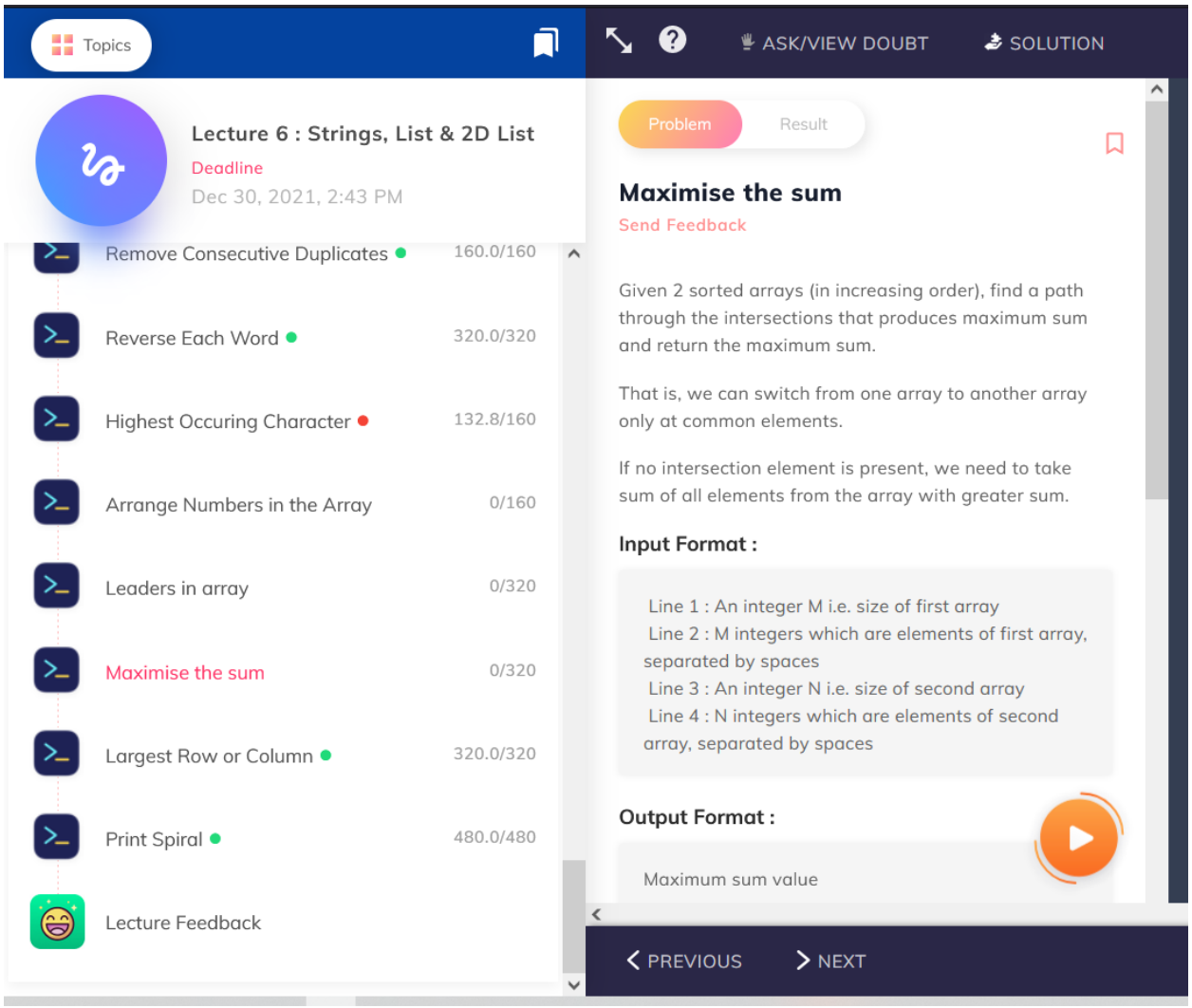

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Assignment
63.1%
Score 1412.80/2240
Remove Consecutive Duplicates 160.0/160
Reverse Each Word 320.0/320
Highest Occuring Character 132.8/160
Arrange Numbers in the Array 0/160
Leaders in array 0/320
Maximise the sum 0/320
Largest Row or Column 320.0/320
Problem
Result
Remove Consecutive Duplicates
Send Feedback
For a given string(str), remove all the consecutive duplicate characters.
Example:
Input String: "aaaa"
Expected Output: "a"
Input String: "aabbbcc"
Expected Output: "abc"
Input Format:
The first and only line of input contains a string without any leading and trailing spaces. All the characters in the string would be in lower case.
Output Format:
The only line of output prints the updated string.

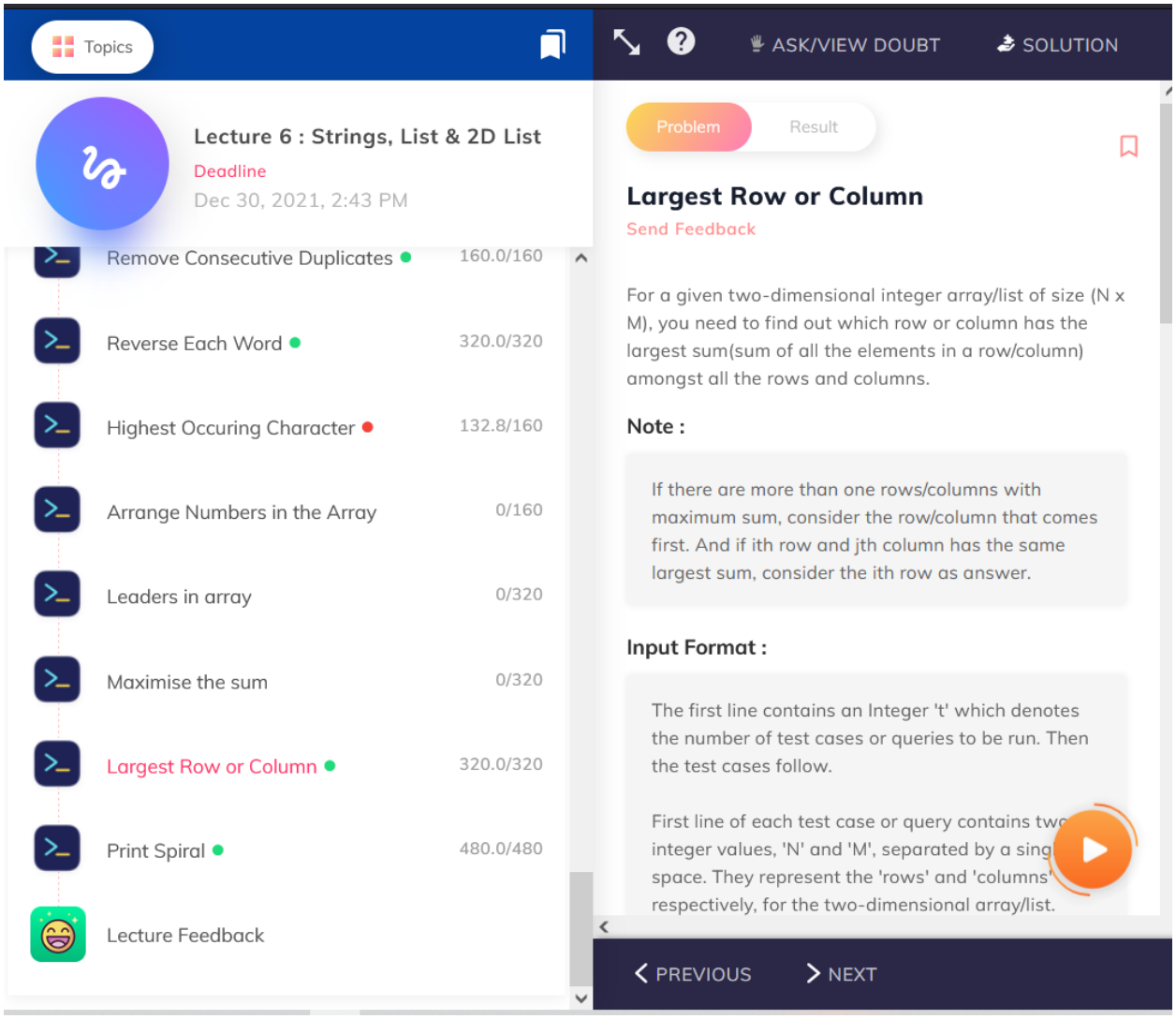

Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Score 1412.80/2240
Remove Consecutive Duplicates 160.0/160
Reverse Each Word 320.0/320
Highest Occuring Character 132.8/160
Arrange Numbers in the Array 0/160
Leaders in array 0/320
Maximise the sum 0/320
Largest Row or Column 320.0/320
Print Spiral 480.0/480
Lecture Feedback
Problem
Result
Reverse Each Word
Send Feedback
Aadil has been provided with a sentence in the form of a string as a function parameter. The task is to implement a function so as to print the sentence such that each word in the sentence is reversed.
Example:
Input Sentence: "Hello, I am Aadil!"
The expected output will print, ",olleH I ma !lidaA".
Input Format:
The first and only line of input contains a string without any leading and trailing spaces. The input string represents the sentence given to Aadil.
Output Format:
The only line of output prints the sentence(strin
such that each word in the sentence is reversed
PREVIOUS
NEXT


Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Remove Consecutive Duplicates 160.0/160
Reverse Each Word 320.0/320
Highest Occuring Character 132.8/160
Arrange Numbers in the Array 0/160
Leaders in array 0/320
Maximise the sum 0/320
Largest Row or Column 320.0/320
Print Spiral 480.0/480
Lecture Feedback
Problem
Result
Highest Occuring Character
Send Feedback
For a given a string(str), find and return the highest occurring character.
Example:
Input String: "abcdeapapqarr"
Expected Output: 'a'
Since 'a' has appeared four times in the string which happens to be the highest frequency character, the answer would be 'a'.
If there are two characters in the input string with the same frequency, return the character which comes first.
Consider:
Assume all the characters in the given string to be in lowercase always.
Input Format:
PREVIOUS
NEXT


Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Remove Consecutive Duplicates 160.0/160
Reverse Each Word 320.0/320
Highest Occuring Character 132.8/160
Arrange Numbers in the Array 0/160
Leaders in array 0/320
Maximise the sum 0/320
Largest Row or Column 320.0/320
Print Spiral 480.0/480
Lecture Feedback
Problem
Result
Arrange Numbers in the Array
Send Feedback
You have been given an empty array(ARR) and its size N. The only input taken from the user will be N and you need not worry about the array.
Your task is to populate the array using the integer values in the range 1 to N(both inclusive) in the order - 1,3,.....4,2.
Note:
You need not print the array. You only need to populate it.
Input Format :
The first line contains an Integer 't' which denotes the number of test cases or queries to be run. Then the test cases follow.
The first and the only line of each test case or
contains an integer 'N'.
PREVIOUS
NEXT


Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Remove Consecutive Duplicates 160.0/160
Reverse Each Word 320.0/320
Highest Occuring Character 132.8/160
Arrange Numbers in the Array 0/160
Leaders in array 0/320
Maximise the sum 0/320
Largest Row or Column 320.0/320
Print Spiral 480.0/480
Lecture Feedback
Problem
Result
Leaders in array
Send Feedback
Given an integer array A of size n. Find and print all the leaders present in the input array. An array element A[i] is called Leader, if all the elements following it (i.e. present at its right) are less than or equal to A[i].
Print all the leader elements separated by space and in the same order they are present in the input array.
Input Format :
Line 1 : Integer n, size of array
Line 2 : Array A elements (separated by space)
Output Format :
leaders of array (separated by space)
Constraints :
1 <= n <= 10^6
PREVIOUS
NEXT


Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Remove Consecutive Duplicates 160.0/160
Reverse Each Word 320.0/320
Highest Occuring Character 132.8/160
Arrange Numbers in the Array 0/160
Leaders in array 0/320
Maximise the sum 0/320
Largest Row or Column 320.0/320
Print Spiral 480.0/480
Lecture Feedback
Problem
Result
Maximise the sum
Send Feedback
Given 2 sorted arrays (in increasing order), find a path through the intersections that produces maximum sum and return the maximum sum.
That is, we can switch from one array to another array only at common elements.
If no intersection element is present, we need to take sum of all elements from the array with greater sum.
Input Format :
Line 1 : An integer M i.e. size of first array
Line 2 : M integers which are elements of first array, separated by spaces
Line 3 : An integer N i.e. size of second array
Line 4 : N integers which are elements of second array, separated by spaces
Output Format :
Maximum sum value
PREVIOUS
NEXT


Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 6 : Strings, List & 2D List
Deadline
Dec 30, 2021, 2:43 PM
Remove Consecutive Duplicates 160.0/160
Reverse Each Word 320.0/320
Highest Occuring Character 132.8/160
Arrange Numbers in the Array 0/160
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Maximise the sum 0/320
Largest Row or Column 320.0/320
Print Spiral 480.0/480
Lecture Feedback
Problem
Result
Largest Row or Column
Send Feedback
For a given two-dimensional integer array/list of size (N x M), you need to find out which row or column has the largest sum(sum of all the elements in a row/column) amongst all the rows and columns.
Note :
If there are more than one rows/columns with maximum sum, consider the row/column that comes first. And if ith row and jth column has the same largest sum, consider the ith row as answer.
Input Format :
The first line contains an Integer 't' which denotes the number of test cases or queries to be run. Then the test cases follow.
First line of each test case or query contains two integer values, 'N' and 'M', separated by a single space. They represent the 'rows' and 'columns' respectively, for the two-dimensional array/list.
PREVIOUS
NEXT

Topics

ASK/VIEW DOUBT SOLUTION

Lecture 6 : Strings, List & 2D List

Deadline

Dec 30, 2021, 2:43 PM

- Remove Consecutive Duplicates 160.0/160
- Reverse Each Word 320.0/320
- Highest Occuring Character 132.8/160
- Arrange Numbers in the Array 0/160
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- Maximise the sum 0/320
- Largest Row or Column 320.0/320
- Print Spiral 480.0/480
- Lecture Feedback

Problem Result

Print Spiral

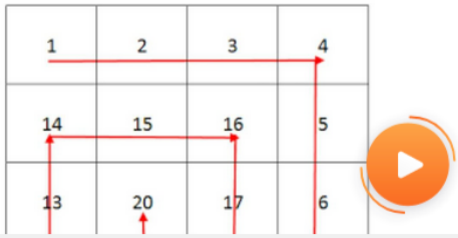
Send Feedback

For a given two-dimensional integer array/list of size (N x M), print it in a spiral form. That is, you need to print in the order followed for every iteration:

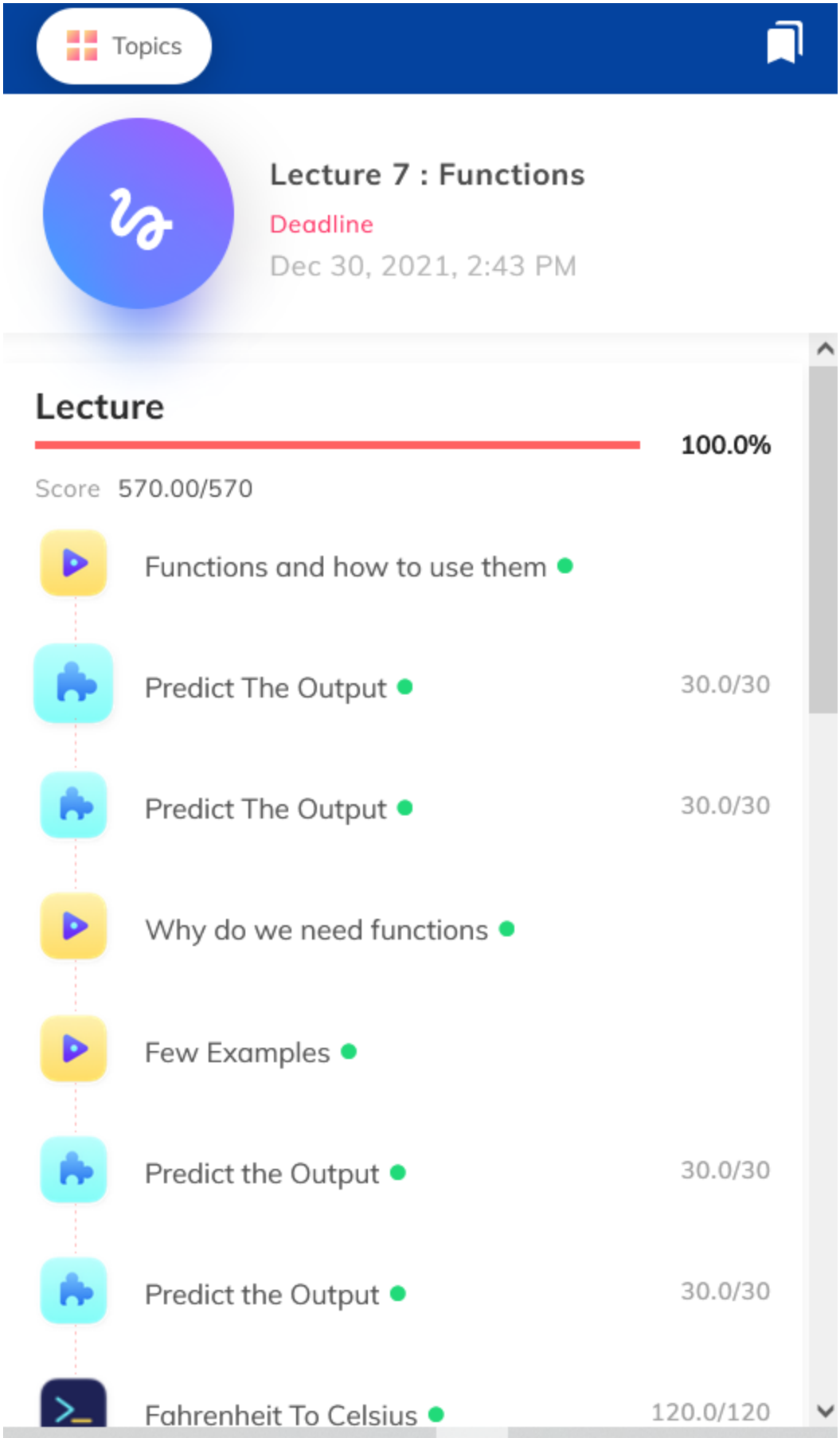
a. First row(left to right)
b. Last column(top to bottom)
c. Last row(right to left)
d. First column(bottom to top)

Mind that every element will be printed only once.

Refer to the Image:



PREVIOUS NEXT


Topics
Lecture 7 : Functions
Deadline
Dec 30, 2021, 2:43 PM
Lecture
100.0%
Score 570.00/570
Functions and how to use them
Predict The Output
30.0/30
Predict The Output
30.0/30
Why do we need functions
Few Examples
Predict the Output
30.0/30
Predict the Output
30.0/30
Fahrenheit To Celsius
120.0/120

Fibonacci Member ● 120.0/120

How does function calling works ●

Predict The Output ● 30.0/30

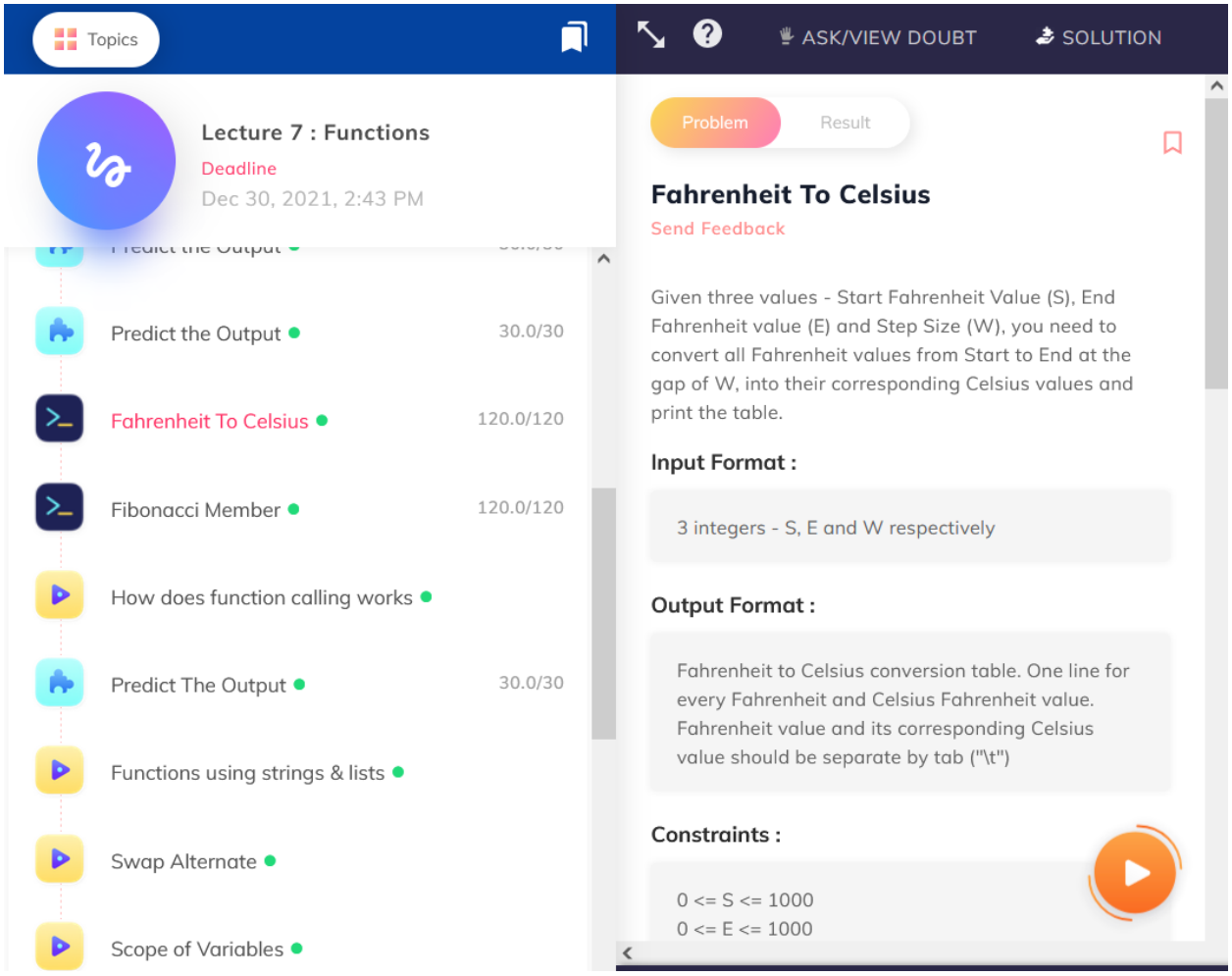
Functions using strings & lists ●

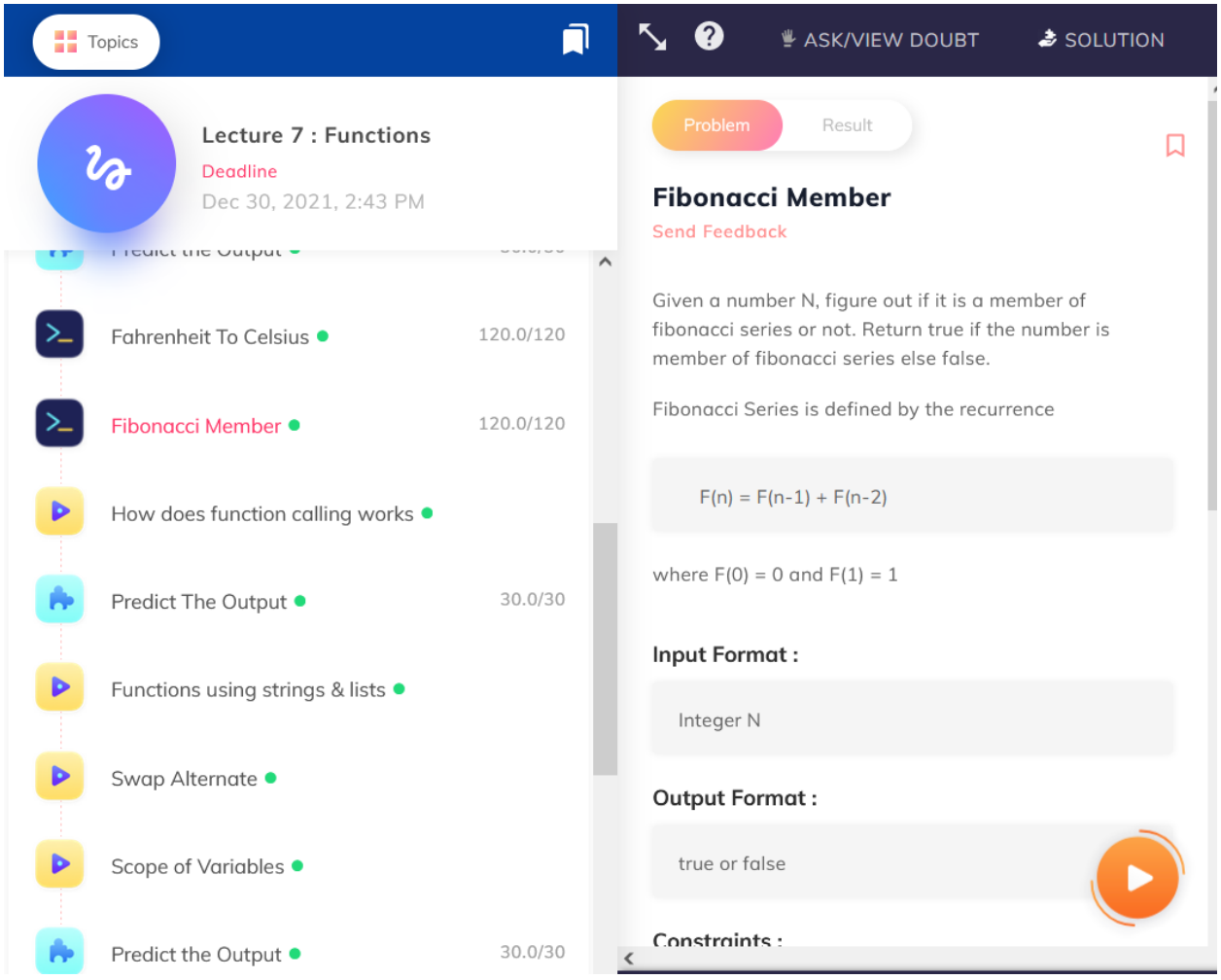
Swap Alternate ●

Scope of Variables ●

Predict the Output ● 30.0/30

	Predict the Output	30.0/30
	Predict the Output	30.0/30
	Predict the Output	30.0/30
	Default parameters in functions	
	Predict the Output	30.0/30
	Predict the Output	30.0/30
	Predict the Output	30.0/30
	Functions Notes	
	Lecture Feedback	


Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 7 : Functions
Deadline
Dec 30, 2021, 2:43 PM
Predict the Output
30.0/30
Fahrenheit To Celsius
120.0/120
Fibonacci Member
120.0/120
How does function calling works
Predict The Output
30.0/30
Functions using strings & lists
Swap Alternate
Scope of Variables
Problem
Result
Fahrenheit To Celsius
Send Feedback
Given three values - Start Fahrenheit Value (S), End Fahrenheit value (E) and Step Size (W), you need to convert all Fahrenheit values from Start to End at the gap of W, into their corresponding Celsius values and print the table.
Input Format :
3 integers - S, E and W respectively
Output Format :
Fahrenheit to Celsius conversion table. One line for every Fahrenheit and Celsius Fahrenheit value. Fahrenheit value and its corresponding Celsius value should be separate by tab ("\t")
Constraints :
0 <= S <= 1000
0 <= E <= 1000


Topics
ASK/VIEW DOUBT
SOLUTION
Lecture 7 : Functions
Deadline
Dec 30, 2021, 2:43 PM
Fahrenheit To Celsius
120.0/120
Fibonacci Member
120.0/120
How does function calling works
Predict The Output
30.0/30
Functions using strings & lists
Swap Alternate
Scope of Variables
Predict the Output
30.0/30
Problem
Result
Fibonacci Member
Send Feedback
Given a number N, figure out if it is a member of fibonacci series or not. Return true if the number is member of fibonacci series else false.
Fibonacci Series is defined by the recurrence
F(n) = F(n-1) + F(n-2)
where F(0) = 0 and F(1) = 1
Input Format :
Integer N
Output Format :
true or false
Constraints :