



NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » The Joy of Computing using Python (course)

Announcements (announcements) About the Course (preview) Ask a Question (forum) Progress (student/home) Mentor (student/mentor)

| | NDTELP | |
|---|--|--|
| How does an NPTEL online course work? Week 1 | | |
| | | |
| Week 3 | | |
| week 4 | | |
| Week 5 | | |
| Week 6 | | |
| scienc | tution Cipher -The e of secrecy (unit? | |
| | 24&lesson=125) | |
| | tution Cipher -The e of secrecy 01 (unit? | |
| | 24&lesson=126) | |
| Substi | tution Cipher -The e of secrecy 02 (unit? | |
| | 24&lesson=127) | |
| O Substi | tution Cipher -The | |
| | e of secrecy 03 (unit? 24&lesson=128) | |
| O Tic Tac | Toe - Down the memor | |
| Lane (unit=1 | unit? 24&lesson=129) | |
| | Toe - Down the memory | |
| | 01 (unit? 24&lesson=130) | |
| | Toe - Down the memory | |
| | 02 (unit? 24&lesson=131) | |
| | Toe - Down the memor | |
| | 03 (unit? 24&lesson=132) | |
| | Toe - Down the memory | |
| | 04 (unit? 24&lesson=133) | |
| | Toe - Down the memory | |
| Lane 0 | 05 (unit? 24&lesson=134) | |
| | sion (unit? | |
| | 24&lesson=135) | |
| | sion 01 (unit? 24&lesson=136) | |
| | sion 02 (unit? 24&lesson=137) | |
| O Recurs | sion 03 (unit? 24&lesson=138) | |
| Recurs | sion 04 (unit? 24&lesson=139) | |
| Recurs | sion 05 (unit? 24&lesson=140) | |
| Recurs | sion 06 (unit? | |
| | 24&lesson=141) amming Assignment - | |
| 1: Dup | olicate 0_cs83/progassignmer | |
| | ımming Assignment - 2: | |
| (/noc2 | ower of 2 0_cs83/progassignment? =293) | |

Programming Assignment - 1: Duplicate

Due on 2020-10-29, 23:59 IST

With a given list L, write a program to print this list L after removing all duplicate values with original order reserved.

Example:

If the input list is

12 24 35 24 88 120 155 88 120 155

Then the output should be

12 24 35 88 120 155

Explanation:

Third, seventh and ninth element of the list **L** has been removed because it was already present.

Input Format:

In one line take the elements of the list **L** with each element separated by a space.

Output Format:

Print the elements of the modified list in one line with each element separated by a space.

Example:

Input: 12 24 35 24

Output:

Your last recorded submission was on 2020-10-20, 15:35 IST Select the Language for this assignment. $\begin{tabular}{l} \begin{tabular}{l} \begin{t$

```
def remove dup(duplicate):
    final_list = []
    for num in duplicate:
    if num not in final_list:
        final_list.append(num)
    print(" ".join(str(x) for x in final_list))
 7 | 8 | list1 = [int(item) for item in input().split()] 9 | remove_dup(list1)
```

You may submit any number of times before the due date. The final submission will be considered for grading.

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program, your assignment will not be graded and you will not see your score after the deadline.

| | Save as Draft | Compile & Run | Submit | Reset |
|--|---------------|---------------|--------|-------|
| Private Test cases used for Evaluation | | Status | | |
| Test Case 1 | | Passed | i | |
| Test Case 2 | | Passed | i | |
| Test Case 3 | | Passed | i | |
| Test Case 4 | | Passed | i | |

Due on 2020-10-29, 23:59 IST





Programming Assignment 3: Lower Triangular Matrix (/noc20_cs83/progassignment? name=304)

(https://swayam.gov.in/nc_details/NPTEL)

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| Course outline | Programming Assignment | | ····· | | Due on 2 |
|--|--|---|-----------------------|-----------------------|------------------|
| low does an NPTEL online | Write a program to find whether a given num | ber is a power o | of 2 or not. | | |
| course work? | Input format: The first line of the input contains the number | r n for which yo | u have to find wh | nether it is a por | wer of 2 or not. |
| Veek 1 | Output Format: | | | | |
| Veek 2 | Print 'YES' or 'NO' accordingly without quot | es. | | | |
| Veek 3 | Example: | | | | |
| reek 4 | Input: 32 | | | | |
| leek 5 | Output: | | | | |
| eek 6 | YES | | | | |
| Substitution Cipher -The science of secrecy (unit? unit=124&lesson=125) | Input: 26 | | | | |
| Substitution Cipher -The science of secrecy 01 (unit? unit=124&lesson=126) | Output: NO | | | | |
| Substitution Cipher -The science of secrecy 02 (unit? unit=124&lesson=127) | Explanation: In the first example, 32 is actually so the and The second number is not a power of 2 hence | | NO. | | |
| Substitution Cipher -The science of secrecy 03 (unit? unit=124&lesson=128) | Your last recorded submission was on 2020-10-20, 15 Select the Language for this assignment. Python3 v | :43 IST | | | |
| Tic Tac Toe - Down the memory Lane (unit? | <pre>1 import math 2 3 n = int(input()) 4 5 def Log2(x):</pre> | | | | |
| unit=124&lesson=129) Tic Tac Toe - Down the memory Lane 01 (unit? | feturn (math.log10(x) / math.log10 if(math.ceil(Log2(n)) == math.floor(Logpin) print("YES") | | | | |
| unit=124&lesson=130) | 10 else: print("NO") | | | | |
| Tic Tac Toe - Down the memory Lane 02 (unit? unit=124&lesson=131) | | | | | |
| Tic Tac Toe - Down the memory Lane 03 (unit? unit=124&lesson=132) | | | | | |
| Tic Tac Toe - Down the memory Lane 04 (unit? unit=124&lesson=133) | | - | | | |
| Tic Tac Toe - Down the memory Lane 05 (unit? unit=124&lesson=134) | You may submit any number of times before the due dat This assignment has Public Test cases. Please click on be evaluated only after submitting using Submit button not be graded and you will not see your score after the | "Compile & Run" bu below. If you only sa | tton to see the statu | s of Public test case | |
| Recursion (unit? unit=124&lesson=135) | not be graded and you will not see your score after the | Save as Draft | Compile & Run | Submit | Reset |
| Recursion 01 (unit? | Private Test cases used for Evaluation | <u> </u> | Status | 3 | |
| unit=124&lesson=136) Recursion 02 (unit? | Test Case 1 | | Passe | ed | |
| unit=124&lesson=137) | Test Case 2 | | Passe | ed | |
| Recursion 03 (unit? unit=124&lesson=138) | Test Case 3 | | Passe | ed | |
| Recursion 04 (unit? unit=124&lesson=139) | | | | | |
| Recursion 05 (unit? unit=124&lesson=140) | | | | | |
| Recursion 06 (unit? unit=124&lesson=141) | | | | | |
| Programming Assignment - 1: | | | | | |
| (/noc20_cs83/progassignment? name=292) | | | | | |
| Programming Assignment - | | | | | |
| 2: The power of 2 (/noc20_cs83/progassignment? name=293) | | | | | |





Duplicate (/noc20_cs83/progassignment?

Programming Assignment - 2: The power of 2 (/noc20_cs83/progassignment?

Programming Assignment 3:

Lower Triangular Matrix (/noc20_cs83/progassignment?

name=292)

name=293)

name=304)

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Programming Assignment 3: Lower Triangular Matrix Course outline Due on 2020-10-29, 23:59 IST A lower triangular matrix is a square matrix (where the number of rows and columns are equal) where all the elements above the How does an NPTEL online course work? For example, the following is a lower triangular matrix with the number of rows and columns equal to 3. 100 450 Week 2 789 Week 3 Write a program to convert a square matrix into a lower triangular matrix. week 4 Input Format: The first line of the input contains a number n which represents the number of rows and the number of columns. Week 5 From the second line, take n lines input with each line containing n elements with each element separated by a space. Print the elements of the matrix with each row in a new line and each element separated by a space. Substitution Cinher -The science of secrecy (unit? unit=124&lesson=125) Example 1: Substitution Cipher -The Input: science of secrecy 01 (unit? unit=124&lesson=126) 123 456 Substitution Cipher -The science of secrecy 02 (unit? 789 unit=124&lesson=127) Output: Substitution Cipher -The 100 science of secrecy 03 (unit? unit=124&lesson=128) 450 789 ☐ Tic Tac Toe - Down the memory Lane (unit? Example 2: unit=124&lesson=129) Input: Tic Tac Toe - Down the memory Lane 01 (unit? unit=124&lesson=130) 12256 10 11 4 1 32 1 4 10 Tic Tac Toe - Down the memory Lane 02 (unit? 1 2 10 9 unit=124&lesson=131) Tic Tac Toe - Down the memory Output: Lane 03 (unit? 12 0 0 0 unit=124&lesson=132) 10 11 0 0 32 1 4 0 ○ Tic Tac Toe - Down the memory Lane 04 (unit? 1 2 10 9 unit=124&lesson=133) Tic Tac Toe - Down the memory In both the examples, elements which are above the diagonal are zero. Lane 05 (unit? unit=124&lesson=134) NOTE: There should not be any extra space after the elements of the last column and no extra newline after the last row of the Recursion (unit? matrix. unit=124&lesson=135) Your last recorded submission was on 2020-10-20, 15:46 IST Recursion 01 (unit? Select the Language for this assignment. Python3 🔻 unit=124&lesson=136) 1 | n=int(input()) 2 | 1=[] unit=124&lesson=137) for i in range(n): for j in range(1): temp=[int(g) for g in input().split()] l.append(temp) Recursion 03 (unit? unit=124&lesson=138) Recursion 04 (unit? for i in range(n): for j in range(n): if i<j: if j==n-1:</pre> unit=124&lesson=139) Recursion 05 (unit? unit=124&lesson=140) print(0,end="") else: print(0,end="") e. 14 15 16 17 18 19 20 21 22 23 24 else: if j==n-1: print(l[i][j],end="") else: print(l[i][j],end=" ") unit=124&lesson=141) Programming Assignment - 1:

You may submit any number of times before the due date. The final submission will be considered for grading. This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program, your assignment will

if(i!=n-1):
 print()

not be graded and you will not see your score after the deadline.

Private Test cases used for Evaluation

Save as Draft Compile & Run Submit

Status

| Quiz : Assignment 6 (assessment?name=298) |
|--|
| Week 6 Feedback Form: The Joy of Computing using Python (unit?unit=124&lesson=142) |
| Text Transcripts |
| Download Videos |
| Books |
| |

| Test Case 1 | Passed |
|-------------|--------|
| Test Case 2 | Passed |
| Test Case 3 | Passed |