

gorithmy Playting(/planning/me)

Weight: 1

Projects(/projects/current)

➡ Project over - took place from Aug 12, 2024 6:00 AM to Aug 16, 2024 6:00 AM

An auto **CPA** i Previebres al upalme that the flow or lieue tions / to review)

? Evaluation quizzes(/dashboards/my current evaluation quizzes) In a nutshell...

Auto QA review: 7.15/11 mandatory

Altogether: 65.0%

Curriculums(/dashboards/my_curriculums)

Optional: no optional tasks

旨 Concepts(/concepts)

துor the "**O Rotate**n 2 D r Matrix(/முழு நிழுக்கு you) ஒரு கொழுர் implementing an in-place algorithm to rotate an n x n 2D matrix by 90 degrees clockwise. This challenge requires a good understanding of matrix manipulation and in-place operations in Python. Below are the key concepts and resources that you ed to Sparage is (as deverse successfully complete this project.

Concepts Needed:
Sandboxes(/user_containers/current)

1. Matrix Representation in Python:

Tools/dashboards/how 2D matrices are represented using lists of lists in Python. Accessing and modifying elements in a 2D matrix.

2. In-place Operations:

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Video on demand(/dashboards/videos)
Performing operations on data without creating a copy of the data structure.

• The importance of minimizing space complexity by modifying the matrix in place.

3. Matrix Transposition:

o Understanding the concept of transposing a matrix (swapping rows and columns).

Implementing matrix transposition as a step in the rotation process.

4. Reversing Rows in a Matrix:

Discord https://discord.com/arth/k by reversing their order as part of the rotation process.

5. Nested Loops:

Using nested loops to iterate through 2D data structures like matrices.

Modifying elements within nested loops to achieve the desired rotation.

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Resources:

Nython Official Documentation:



Data Structures (list comprehensions, nested list comprehension)

(/r/token/eZc_ELGxUgkuc4kkE_fd7Q)

Home(/) – More on Lists (/rltoken/00Rj179giGhGe8jpcxBkXg)

GeeksforGeeks Articles:



My Physiaing Materiagiane matrix by 90 degrees (/rltoken/9T8w4mtillRDtfLSmEmrLA)

• Transpose a matrix in Single line in Python (/rltoken/JdlFvtej2hMW-Wd9ABHMOA)

TutorialsPoint:

Projects(/projects/current)

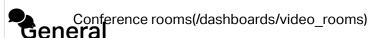
• Python Lists (/rltoken/rFmzUTpaLGqDXjGA6D9eYw) for basics of list manipulation in Python.

QA Reviews I can make (/corrections/to_review). By understanding these concepts and utilizing the provided resources, you will be able to approach the problem methodically, first transposing the matrix and then reversing each row to achieve a 90-degree clockwise rotation. This project not only tests your ability to manipulate 2D matrices but also challenges Evaluation quizzes (/dashboards/my_current_evaluation_quizzes) you to think about optimizing your solution to operate in-place, thus improving their problem-solving and algorithmic thinking skills in Python.

Additional Resourcesums)

Mock Technical Interview (/rltoken/4GPWA9C2AJHtpdGxulHEPA)

Concepts(/concepts) Requirements





- Allowed editors: vi, vim, emacs
- Servers(/servers)

 All your files will be interpreted/compiled on Ubuntu 20.04 LTS using python3 (version 3.8.10)
- All your files should end with a new line
- >
- The first line of all your files should be exactly #!/usr/bin/python3
- A README.md file, at the root of the folder of the project, is mandatory
- Your code should use the pycodestyle style (version 2.8.0)



- YoTPale(Idashlowedstrikuterls)ny module
- All modules and functions must be documented



• All your files must be executable Video on demand(/dashboards/videos)

RiskSeers(/users/peers)

Rotate 2D Matrix (/discord.com/app)

mandatory

Score: 65.0% (Checks completed: 100.0%)



Given an n x n 2D matrix, rotate it 90 degrees clockwise.

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 Prototype: def rotate_2d_matrix(matrix):

