Lab № 2

CSCI B505 Applied Algorithms 09/01/2022

Instructions

1. Please write the code for the problems in python language in Jupyter notebook
2. The code should readable with variables named meaningfully
3. Plagiarism is unacceptable and we have ways to find it. So do not do it.
4. Follow the instructions and define the methods/functions as given in the problem statement.
5. Write test cases wherever required so that they cover all scenarios.
6. Please do not use in-built python functions for solving the problem.

Problem 1

Given a list of numbers, rotate the list to the right by p positions. Here p is non-negative.

```
Example 1:
Input: num_list = [7, 5, 3, 1] , p = 0
Output:
    Given list: [7, 5, 3, 1]
    Updated list after rotating by 0 positions : [7, 5, 3, 1]

Example 2:
Input: num_list = [5, 2, 7, 1] , p = 2
Output:
    Given list: [5, 2, 7, 1]
    Updated list after rotating by 2 positions : [7, 1, 5, 2]

Example 3:
Input: num_list = [12, 67, 89], p = 4
Output:
    Given list: [12, 67, 89]
    Updated list after rotating by 4 positions : [89, 12, 67]
```

Write the code as below printing the array before rotation and after rotation.

```
def rotate_array(num_list, p):
    print("Given list: ")
    '''Your code
        comes here'''

    print("Updated list after rotating by p positions:")
    return
```