

**Implement an algorithm to rotate an image by 90 degrees clockwise.**  
 Input: An image represented as an n x n 2D array, where each element is a color value.  
 Output: The image rotated 90 degrees clockwise.

**1. Understand the problem:**  
 - Input: A 2D array representing an image, where each element is a color value.  
 - Output: The image rotated 90 degrees clockwise.  
 - Constraints: The image is represented as an n x n 2D array. The rotation should be done in-place.

**2. Design the algorithm:**  
 - Rotate the image in-place by 90 degrees clockwise.  
 - Use a temporary array to store the original image values.  
 - Iterate over the original image and place the values in the rotated positions in the temporary array.  
 - Return the temporary array as the rotated image.

**3. Implement the algorithm:**  
 - Create a function `rotateImage` that takes a 2D array `image` as input.  
 - Create a temporary array `temp` of the same size as `image`.  
 - Iterate over the original image and place the values in the rotated positions in the temporary array.  
 - Return the temporary array as the rotated image.

**4. Test the algorithm:**  
 - Create a test case with a 3x3 image.  
 - Call the `rotateImage` function with the test case.  
 - Verify the output is the image rotated 90 degrees clockwise.

**5. Complexity Analysis:**  
 - Time Complexity: O(n^2), where n is the side length of the image.  
 - Space Complexity: O(n^2), where n is the side length of the image.

**6. Edge Cases:**  
 - Empty image (0x0).  
 - Single element image (1x1).  
 - Image with all zeros.

**7. Conclusion:**  
 - The algorithm successfully rotates the image by 90 degrees clockwise in-place.

**8. Additional Notes:**  
 - The algorithm can be modified to rotate the image by 90 degrees counter-clockwise.