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Note: Try to solve this task in-place (with  $O(1)$  additional memory), since this is what you'll be asked to do during an interview.



You are given an  $n \times n$  2D matrix that represents an image. Rotate the image by 90 degrees (clockwise).



## Example



For

```
a = [[1, 2, 3],
      [4, 5, 6],
      [7, 8, 9]]
```

the output should be

```
rotateImage(a) =
[[7, 4, 1],
 [8, 5, 2],
 [9, 6, 3]]
```

## Input/Output

- [execution time limit] 20 seconds (scala)

- [input] array.array.integer a

Guaranteed constraints:

```
1 ≤ a.length ≤ 100,
a[i].length = a.length,
1 ≤ a[i][j] ≤ 104.
```

- [output] array.array.integer

### [Scala] Syntax Tips

```
def helloWorld(name: String): String = {
    println("This prints to the console when you Run Tests")
    "Hello, " + name
}
```