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867. Transpose Matrix

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Solution

Approach 1: Copy Directly

Intuition and Algorithm

The transpose of a matrix A with dimensions R x C is a matrix ans with dimensions C x R for which ans[c] [r] = A[r][c].

Let's initialize a new matrix ans representing the answer. Then, we'll copy each entry of the matrix as appropriate.



Complexity Analysis

- Time Complexity: O(R*C), where R and C are the number of rows and columns in the given matrix A.
- Space Complexity: O(R * C), the space used by the answer.

Analysis written by: @awice (https://leetcode.com/awice).

