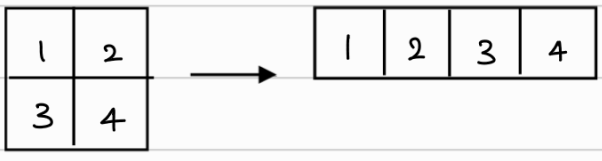
* Problem statement :-

→ We are given a mxn matrix & two integers r & c that represents the row & column of the reshaped matrix.

→ The reshaped matrix is to be filled with the data of the original matrix in the same row traversing order.

→ If the reshape is not possible, then output the original matrix.

Example :-



Input :- [[1,2], [3,4]], r = 1, c = 4

Output :- [[1, 2, 3, 4]]

Input :- [[1,2], [3,4]], r = 2, c = 4

Output :- [[1,2], [3,4]]

Because mxn != rxc

Solution :-

→ If mxn != rxc, simply return the original matrix.

→ Create a result matrix with dimensions rxc.

→ Initialize two variables row & col = 0.

→ Loop over the matrix

- result [row] [col] = matrix [i] [j]
- If col == c, increment row & set col = 0

Time complexity :- O(mxn)

Space complexity :- O(1)