CSE220: Data Structures (Lab)
Fall 2024
Lab Quiz - 01
Duration: 30 Minutes

Name:	ID:	Section:

Question 1 [15 Points]

Write a function named *replace_array* that would replace each element of a 2D array with the **magic number**. The **magic number** for an index (i, j) is defined as **magic number = (Sum of all elements in row i, excluding A[i][j]) * (Sum of all elements in column j, excluding A[i][j]).**

[You are not allowed to use any built-in functions sum()]

Sample Input:	Sample Output:	Explanation:
1 2 3 4 5 6 9 8 7 2 8 1	75 84 42 132 180 99 105 240 170 126 45 160	Consider index (2, 1). The Sum of all elements in row 2, excluding A[2][1] is 9+7 = 16. The Sum of all elements in column 1, excluding A[2][1] is 2+5+8=15, so index (2, 1) will take the value of 16*15=240. The process will be the same for all the indices.