Identical Matrices

Write a program to check whether two matrices are identical or not.

Input:
The first line of input contains an integer T denoting the number of test cases. Then T test cases follow. Each test contains an integer N denoting the size of the square matrix. Then the two square matrix of size N*N is taken as input with space separating integers.

Output:
Print "Yes" (without quotes) if matrices are identical and "No" if not identical.

Constraints:
1<=T<=1000
1<=N<=20
1<=a[i][j]<=1000
1<=b[i][j]<=1000

Example:
Input:
2
4
1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4
1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4
2
1 2 3 4
3 4 2 1

Output:
Yes
No