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'''
    Time complexity: O(N*M)
    Space complexity: O(N*M)
    where N and M are the matrix parameters
'''
from sys import stdin
dir = [[1, 0], [-1, 0], [0, 1], [0, -1]]

def valid(x, y, n) :
    return (x >= 0 and y >= 0 and x < n and y < n)

def __dfs(edge, vis, x, y, n) :
    vis[x][y] = True
    count = 1

    for i in range(4) :
        nex = x + dir[i][0]
        ney = y + dir[i][1]

        if(valid(nex, ney, n) and edge[nex][ney] == '1' and vis[nex][ney] == False) :
            count += __dfs(edge, vis, nex, ney, n)

    return count

def dfs(edge, n) :
    vis = [[False for i in range(n)] for j in range(n)]
    ans = 0

    for i in range(n) :
        for j in range(n) :
            if(vis[i][j] == False and edge[i][j] == '1') :
                ans = max(ans, __dfs(edge, vis, i, j, n))

    return ans

# Main

n = int(stdin.readline().strip())
edge = [stdin.readline().strip().split() for i in range(n)]
print(dfs(edge, n))

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