Intuition:

Search after flattening array.3D 🡪2D

That the first row will always be a multiple of the no.of columns.

Hence we can get the column number.

Row=divide by m

Col is modulo n

def searchMatrix(mat: [[int]], target: int) -> bool:

    n=len(mat)

    m=len(mat[0])

    s=0

    e=(n\*m)-1

    while(s<=e):

        mid=(s+e)//2

        row=mid//m

        col=mid%m

        if mat[row][col]==target:

            return True

        elif mat[row][col]<target:

            s=mid+1

        else:

            e=mid-1

    return False