from bisect import bisect\_right as up\_bound

MAX = 100;

def bimed(m, r, d):

min = m[0][0]

max = 0

for i in range(r):

if m[i][0] < min:

min = m[i][0]

if m[i][d-1] > max :

max = m[i][d-1]

x = (r \* d + 1) // 2

while (min < max):

mid = min + (max - min) // 2

pos = [0];

for i in range(r):

j = up\_bound(m[i], mid)

pos[0] = pos[0] + j

if pos[0] < x:

min = mid + 1

else:

max = mid

print (min)

return

r = int(input())

d = int(input())

m = []

for i in range(r):

a =[]

for j in range(d):

a.append(int(input()))

m.append(a)

bimed(m, r, d)