##search in 2d array with sorted order

##Row optimize: binary search

##column optimize : check target<row[0]

class Solution(object):

def searchArray(self, array, target):

"""

:type array: List[List[int]]

:type target: int

:rtype: bool

"""

def binarysearch(arr):

start = 0

end = len(arr)

while start<=end:

mid = (start+end)//2

if arr[mid]==target:

return True

elif arr[mid]>target:

end = mid-1

else:

start = mid+1

return False

for ele in array:

if target<ele[0]:

return False

elif ele[0]<=target<=ele[-1]:

if binarysearch(ele):

return True

return False

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：https://www.acwing.com/activity/content/code/content/16847/

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