def func(arr,mid):

    cnt=0

    k=1

    for i in range(len(arr)):

        if cnt+arr[i]<=mid:

            cnt+=arr[i]

        else:

            k+=1

            cnt=arr[i]

    return k

def findLargestMinDistance(boards:list, k:int):

    s=max(boards)

    e=sum(boards)

    while(s<=e):

        mid=(s+e)//2

        a=func(boards,mid)

        if a>k:

            s=mid+1

        else:

            e=mid-1

    return s