class Solution:

def maxBalls(self, N, M, a, b):

# code here

i=0

j=0

temp1=0

temp2=0

result=0

current1, current2=-1,-1

while i<N and j<M:

if a[i]>b[j]:

temp2+=b[j]

j+=1

elif a[i]<b[j]:

temp1+=a[i]

i+=1

else:

temp1+=a[i]

temp2+=b[j]

i+=1

j+=1

while i<N and a[i]==a[i-1]:

temp1+=a[i]

i+=1

while j<M and b[j]==b[j-1]:

temp2+=b[j]

j+=1

current1=i

current2=j

if temp1>=temp2:

result+=temp1

else:

result+=temp2

temp1=0

temp2=0

while j<M:

temp2+=b[j]

j+=1

while i<N:

temp1+=a[i]

i+=1

if temp1>=temp2:

result+=temp1

else:

result+=temp2

return result

#{

# Driver Code Starts

#Initial Template for Python 3

if \_\_name\_\_ == '\_\_main\_\_':

N, M = [int(x) for x in input().split()]

a = input().split()

b = input().split()

for i in range(N):

a[i] = int(a[i])

for i in range(M):

b[i] = int(b[i])

ob = Solution()

print(ob.maxBalls(N, M, a, b))