class sum\_two:

def \_\_init\_\_(self, data, i, j):

self.sum = data[i] + data[j]

self.ind1= i

self.ind2 = j

def check\_distinct(data\_left, data\_right):

if (data\_left.ind1 != data\_right.ind1) and (data\_left.ind1 != data\_right.ind2) and(data\_left.ind2 != data\_right.ind1) and(data\_left.ind2 != data\_right.ind2):

return True

return False

arr = [10, 2, 3, 4, 5, 9, 7, 8]

value\_sum = 23

two\_data\_sum = []

for idata in range(len(arr)-1):

for jdata in range(idata, len(arr)):

two\_data\_sum.append(sum\_two(arr, idata, jdata))

two\_data\_sum.sort()

left = 0

right = len(two\_data\_sum)-1

while left < right:

data\_left = two\_data\_sum[left]

data\_right = two\_data\_sum[right]

temp\_sum\_value = data\_left.sum + data\_right.sum

if temp\_sum\_value == value\_sum:

if check\_distinct(data\_left, data\_right):

print(‘proper four number is: %d, %d, %d, %d’ % (arr[data\_left.ind1], arr[data\_left.ind2], arr[data\_right.ind1], arr[data\_right.ind2]))

elif temp\_sum\_value < value\_sum:

left += 1

else:

right -= 1