**GRIDLEX SECOND ROUND PROBLEM**

**Q. l=[1,2,3,4] minimize length of list to two and print which list has minimum difference between two numbers**

**Ans**: l=[1,2,3,4]

l2=[]

for i in range(len(l)):

for j in range(i+1,len(l)):

t=l[i]+l[j]

t2=0

for k in range(len(l)):

if k!=i and k!=j:

t2+=l[k]

nl=[t,t2]

if nl not in l2:

l2.append(nl)

print(l2)#[[3, 7], [4, 6], [5, 5], [6, 4], [7, 3]]

res=l2[0]

mini=l2[0][1]-l2[0][0]

for i in range(1,len(l2)):

if abs(l2[i][1]-l2[i][0])<mini:

mini=abs(l2[i][1]-l2[i][0])

res=l2[i]

print(res)

**Q2.** **[[4,-1,2],[3,5,-1],[-1,1,6]] remove -1 in the list and add proper values**

**Ans**: l=[[4,-1,2],[3,5,-1],[-1,1,6]]

diag=0

for i in range(len(l)):

for j in range(len(l[i])):

if i==j:

diag+=l[i][j]

for i in range(len(l)):

for j in range(len(l[i])):

if l[i][j]==-1 and sum(l[i])!=15:

l[i][j]=diag-sum(l[i])-1

print(l)