arr=[1,1,2,3,4,6,2,2,1];

arr.sort();

arr.reverse();

print(sum(arr)/2);

if((sum(arr)%2)!=0):

print("-1");

else:

val=sum(arr)/2;

arr1=[];

n=0;

temp=0;

for i in arr:

temp+=i

if(i>val):

print("-1 VAL");

break;

elif(temp<=val):

arr1.append(i);

else:

temp-=i;

if(len(arr1) >= 0):

print(arr1);