# Code

def merge(S1,S2):

i=j=0

S=[]

while(i+j < len(S1)+len(S2)):

if j==len(S2) or (i<len(S1) and S1[i]<S2[j]):

S.append(S1[i])

i+=1

else:

S.append(S2[j])

j+=1

return S

S1=[3, 9, 14, 18]

S2=[2, 5, 6, 15, 56]

print(merge(S1,S2))

# Output

