SubtourExchangeX(p1,p2,c1,c2,4)

Arr subtour1 =[ ]

Arr subtour2 =[ ]

for i =0 to n-L

subtor1 = RefillingSubtour(i,L,arr[] p1)

for j =0 to n-L

subtour2 = RefillingSubtour(j,L,arr[] p2)

if(CompareTwoList(subtour1,subtour2)){

int s =0

while(s<n)

if(s != i)

c1[s] = p1[s]

s+=1

else

for t =0 to L-1

c1[s] = subtour2[t]

s += 1

s=0

while(s<n)

if(s != j)

c2[s] = p2[s]

s+=1

else

for t =0 to L-1

c2[s] = subtour1[t]

s += 1

return

}

return(SubtourExchangeX(p1,p2,c1,c2,n-1))

Int[ ] RefillingSubtour(int start,int length,arr[] p1)

List S = []

for i =0 to length-1

S.append(p1[start])

return S

bool CompareTwoList(List listA,List listB)

while(listA.min() = listb.min()){

listA.pop(listA.min())

listB.pop(listB.min())

}

If(listA ==null and listB == null)return True

else{return False}