//numOfposi : number of positions

// temp[ ] : record array, temp[i] => to record which number is already assigned to Proto-child

Poisition-based X( p1, p2, c1, c2)

numOfpos = Random(n);

int numOfposchild1 = numOfpos;

for(int i=0;i<n;i++)temp[i] =0;

while(numOfposchild1 !=0){

int pos ;

do{

pos = Random(n);

}while(temp[p1[pos]] == -1)

c1[pos] = p1[pos];

temp[p1[pos]] = -1;

numOfposchild1 -=1;

}

for(int i=0; i<n ; i++)

if(temp[p2[i]] != -1)c1[i] = p2[i]

int numOfposchild2 = numOfpos

for(int i=0;i<n;i++)temp[i] =0;

while(numOfposchild2 !=0){

int pos ;

do{

pos = Random(n);

}while(temp[p2[pos]] == -1)

c2[pos] = p2[pos];

temp[p2[pos]] = -1;

numOfpos -= 1

for(int i=0; i<n ; i++)

if(temp[p1[i]] != -1)c2[i] = p1[i]