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#sec:01

#.......................................

#1

def shiftleft(source,k):

for iteration in range(k):

for i in range(0, len(source)-1):

source[i]=source[i+1]

#for j in range(len(source)-1,k+1,-1):

#source[j]=0

source[len(source)-1]=0

source=[10,20,30,40,50,60]

shiftleft(source,3)

print(source)

#2

def leftRotate(source,k):

for iteration in range(k):

temp=source[0]

for i in range(0, len(source)-1):

source[i]=source[i+1]

source[len(source)-1]=temp

source=[10,20,30,40,50,60]

leftRotate(source,3)

print(source)

#3

def shifRight( source, k):

for iteration in range(k):

for i in range(len(source)-1,0,-1):

source[i]=source[i-1]

source[0]=0

print(source)

source=[10,20,30,40,50,60]

shifRight( source,3)

#4

def RightRotate( source, k):

for iteration in range(k):

temp=source[len(source)-1]

for i in range(len(source)-1,0,-1):

source[i]=source[i-1]

source[0]=temp

source=[10,20,30,40,50,60]

RightRotate( source,3)

print(source)

#5

def remove(source, size, indx):

for i in range(indx,size):

source[i]=source[i+1]

source=[10,20,30,40,50,0,0]

remove(source,5,1)

print(source)

#6

def removeAll(source, size, n):

i=0

while True:

if len(source)==i:

break

else:

if source[i] == n:

remove(source, size, i)

else:

i+=1

source=[10,2,30,2,50,2,2,0,0]

removeAll(source,7,2)

print(source)

#7

a= [10, 3, 1, 2, 10,7]

new=[None]\*len(a)

sum=0

for i in range(len(new)):

sum+=a[i]

new[i]=sum

temp=new[len(a)-1]

flag=False

for x in range(len(new)):

if new[x]==temp-new[x]:

flag=True

break

else:

pass

print(flag)

#8

def ArraySeries(n):

arr=[None]\*(n\*n)

store=[None]\*n

for dig in range(1,n+1):

store[dig-1]=dig

arr\_idx=len(arr)-1

for i in range(n):

store\_idx=0

while store\_idx<=(n-1):

arr[arr\_idx]= store[store\_idx]

store\_idx+=1

arr\_idx-=1

store[n-1-i]=0

return arr

print(ArraySeries(int(input("Given input: "))))

#9

def MaxBunchCount(arr):

count=1

max=0

for i in range(len(arr)-1):

if arr[i]==arr[i+1]:

count+=1

if count>max:

max=count

else:

count=1

return max

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

print(MaxBunchCount(arr))

#10

def Repetition(arr):

#creating new array

new=[None]\*len(arr)

check=[None]\*len(arr)

idx=0

for i in range(len(arr)-1):

count=1

iteration=0

flag\_1=False

while check[iteration]!=None:

if arr[i]==check[iteration]:

flag\_1= True

break

else:

flag\_1=False

iteration+=1

if flag\_1==False:

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

if arr[i]==arr[j]:

count+=1

if count>1:

new[idx]=count

check[idx]=arr[i]

idx+=1

#repeatition checking

flag\_2=False

for i in range(len(new)-1):

if new[i]!=None:

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

if new[i]==new[j]:

flag\_2=True

break

else:

flag\_2=False

return flag\_2

arr=[3,4,6,3,4,7,4,6,8,6,6]

print(Repetition(arr))