**Ebay - Codesignal - Increment Binary Number**

def sum(number,seq):

def incr(bit\_string):

carry = False

bits = list(bit\_string[::-1])

for i, bit in enumerate(bits):

carry = bit != "0"

if bit == "0":

bits[i] = "1"

break

else:

bits[i] = "0"

if carry:

bits.append("1")

return "".join(bits[::-1])

op = []

for i in seq:

if i == "+":

number = incr(number)

else:

op.append(number.count("1"))

return op

number = "1101"

requests = ["?","+","?","+","?","+","?"]

print(sum(number, requests))

memory=[0,1,0,0,0,1,1,0,0,0,1,0,0]

queries=[[0,2],[0,1],[0,1],[1,2],[1,4],[0,4]]

op=[]

id=0

ctr=[]

for el in queries:

if el[0]==0:

apd=0

for i in range(0,len(memory),1):

free=0

if i+el[1]<= len(memory):

for j in range(i,i+el[1]):

if memory[j]==1:

free=1

break

if free==0:

op.append(i)

id+=1

ctr.append([id,[i,i+el[1]]])

for j in range(i,(i+el[1])):

memory[j]=1

apd=1

break

if apd==0:

op.append(-1)

else:

dt=0

for k in (ctr):

if k[0]==el[1]:

lt=0

for p in range(k[1][0],k[1][1]):

memory[p]=0

lt+=1

op.append(lt)

del ctr[ctr.index(k)]

dt=1

if dt==0:

op.append(-1)

print(op)