Coding Test Solutions :

- Cloning

Task :- Given an array of positive integers, print even numbers twice and odd numbers once.

For eg : arr = [1 , 2, 3 , 5, 6]

Output : 1 2 2 3 5 6 6

Code :

```
# Taking inputs
n=int(input())
if n==0:
    print(-1)
else:
    lst=[int(x) for x in input().split()]
    # Printing even numbers twice, odd number once
    for i in lst:
        if i%2==0:
            print(i,i,end=" ")
        else:
            print(i,end=" ")
```

- Play with numbers

Task :- Given an array of positive integers, print the minimum number of deletions required to make the sum of every adjacent element even.

For eg : arr = [1 , 3 , 2 , 7 , 4]

Output : 2 (after deleting 2 & 4 from array every adjacent sum will be even)

Code :

```
n=int(input())
lst=[int(x) for x in input().split()]
if n==1 and lst[0]%2==1:
    print(1)
else:
    evencount,oddcount=0,0
    for i in lst:
        if i%2==0:
            evencount+=1
        else:
            oddcount+=1
    print(min(evencount,oddcount))
```

- Missing-Integer

Task :- Given a list of length n containing positive integers, print the minimum positive integers missing in the list.

For eg :- n = 4 , arr = [1 , 2 , 3 , 2]

Output : 4

Code :

```
n=int(input())
xset=set([int(x) for x in input().split()])
for i in range(1,n+2):
    if i not in xset:
        print(i)
        break
```

- Twins

Task :- Given an array of positive integers, print all the twins and print -1 if there are no twins. Two elements are said to be twin if they are adjacent and their values are equal.

For eg : arr = [1 , 2 , 3 , 3 , 4]

Output : 3 3

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

Output : 1 1 2 2

Note that we print 2 only twice not thrice

Code :

```
n=int(input())
lst=[]
for i in range(n):
    lst.append(int(input()))
flag=True
for i in range(n-1):
    if i==0:
        if lst[i]==lst[i+1]:
            print(lst[i],lst[i],end=" ")
            flag=False
        prev=lst[i]
    else:
        if lst[i]==lst[i+1] and lst[i]!=prev:
            print(lst[i],lst[i],end=" ")
            flag=False
        prev=lst[i]
if flag:
    print(-1)
```