

#1

```
n=int(input())
arr=[]
for i in range(n):
    arr.append(int(input()))
s=0
a=sum(arr)
for i in range(1,n+2):
    s+=i
c=s-a
print("Missing number is:",c)
```

#2

```
arr=list(map(int,input("Enter the numbers space seperated: ").split()))
not_repeated=[]
for i in arr:
    if arr.count(i)==1:
        not_repeated.append(i)
print(not_repeated)
```

#3

```
arr=list(map(int,input("Enter the numbers space seperated: ").split()))
if arr==sorted(arr):
    print("True")
else:
    print("False")
```

#4

```
n=int(input())
arr=[]
for i in range(n):
```

```
arr.append(int(input()))
printed=set()
for i in arr:
    if arr.count(i)>n//2 and i not in printed:
        print(i)
        printed.add(i)
```

#5

```
arr=list(map(int,input("Enter the numbers space seperated: ").split()))
if len(arr)==1:
    print("False")
else:
    total=sum(arr)
    left_sum=0
    found=False
    for i in range(len(arr)):
        right_sum=total-left_sum-arr[i]
        if left_sum==right_sum:
            print("True")
            found=True
            break
        left_sum+=arr[i]
    if not found:
        print("False")
```

#6

```
n=int(input("Enter the number of elements in the array:"))
arr=[]
for i in range(n):
    arr.append(int(input("Enter the elements:")))
target = int(input("Enter the target sum: "))
```

```
pairs=[]
for i in range(len(arr)-1):#5
    for j in range(i+1,len(arr)):#1,6
        if arr[i]+arr[j]==target:#0,1#0,2#0,3#0,4#0,5
            pairs.append((arr[i],arr[j]))
print(pairs)
```