## 14th Evening Exam

```
In [18]: # You have been given integer array A and size N, then you need to print the v
         alue of the element which is closest to zero, if multiple candidates are prese
         nt the print then largest value
         n=int(input())
         s=input()
         s=s.split()
         li=[]
         for i in s:
             li.append(int(i))
         def closestZero(li):
             if 0 in li:
                  return 0
             else:
                  li.sort()
                  pc=[]
                  nc=[]
                  for i in li:
                      if i>0:
                          pc.append(i)
                      else:
                          nc.append(i)
                  if len(nc)==0:
                      return min(pc)
                  elif len(pc)==0:
                      return max(nc)
                  else:
                      nz=max(nc)
                      pz=min(pc)
                      if abs(nz)>pz or abs(nz)==pz:
                          return pz
                      else:
                          return nz
         closestZero(li)
         122 100 3
```

122 100 Out[18]: 3

**OR** 

```
In [10]: li=[-24, 5, 14, -1]
    li.sort()
    pl=[]
    for i in li:
        pl.append(abs(i))
    pl.sort()
    if pl[0] in li:
        print(pl[0])
    else:
        print(-pl[0])
```

-1

```
In [14]: # You have been given integer array A and size N, then you need to print the v
alue of the element which is closest to zero, if multiple candidates are prese
nt the print then lesser value

li=[-24, -5, 2, -3]
li.sort()
pl=[]
for i in li:
    pl.append(abs(i))
pl.sort()
if -pl[0] in li:
    print(-pl[0])
else:
    print(pl[0])
```

2

```
In [17]: # You have been given integer array A and size N, then you need to print the v
alue of the element which is far to zero, if multiple candidates are present t
he print then greater value

li=[-14, 5, 14, -100]
li.sort()
pl=[]
for i in li:
    pl.append(abs(i))
pl.sort()
if pl[-1] in li:
    print(pl[-1])
else:
    print(-pl[-1])
```

-100

```
In [22]: # You are given 3numbers a,b, and c. Write a program to find the Largest numbe
r which is less than or equal to c and leaves remainder b when divided by a.
# Ex: 3 2 9 --> 9%3==0 so reduce c then 8%3==2

def cal(a,b,c):
    for i in range(c,a-1,-1):
        if i % a ==b:
            return i
    return -1
cal(3,1,50)
```

Out[22]: 49

In [ ]:	
In [ ]:	
In [ ]:	
In [ ]:	