

In [9]:

```
num = True
count1 = 0
count2 = 0
count3 = 0

while(num):
    print("\n1. Check the number \n2. Exit")
    i = int(input())
    if (i == 1):
        Enter = int(input("Enter the number: "))
        if (Enter > 0):
            print("Positive")
            count1+= 1

        elif (Enter < 0):
            print("Negative")
            count2 += 1

        elif (Enter == 0):
            print("Zero")
            count3 += 1
    elif (i == 2):
        break
    else:
        print("Please enter either 1 or 2")
print("Positive Count :",count1, "\nNegative Count : ",count2,"\nZero Count : ",count3)
```

```
1. Check the number
2. Exit
1
Enter the number: 159
Positive
```

```
1. Check the number
2. Exit
1
Enter the number: -568
Negative
```

```
1. Check the number
2. Exit
1
Enter the number: 00
Zero
```

```
1. Check the number
2. Exit
1
Enter the number: 486
Positive
```

```
1. Check the number
2. Exit
1
Enter the number: -864
Negative
```

```
1. Check the number
2. Exit
1
Enter the number: 00
Zero
```

```
1. Check the number
2. Exit
1
Enter the number: 486
Positive
```

```
1. Check the number
2. Exit
2
Positive Count : 3
Negative Count : 2
Zero Count : 2
```

## Question 2

In [14]:

```
for num in range(1,500,1):
    l = len(str(num))
    sum = 0
    t = num
    while t > 0:
        d = t % 10
        sum = sum +d**l
        t = t // 10

    if (num == sum):
        print(num)
```

```
1
2
3
4
5
6
7
8
9
153
370
371
407
```

## Question 3

In [18]:

```
num = int(input("Enter the number : "))
d1 = num%10
num = num/10
d2 = num%10
num = num/10
d3 = num%10
num = num/10
d4 = num%10
num = num/10
d5 = num%10

d1 = int((d1+1)%10)
d2 = int((d2+1)%10)
d3 = int((d3+1)%10)
d4 = int((d4+1)%10)
d5 = int((d5+1)%10)

print(d5,d4,d3,d2,d1)
```

```
Enter the number : 15965
2 6 0 7 6
```