In [2]:

```
l = [int(i) for i in input('Enter values: ').split()]
for j in range(1, len(l)):
    key = l[j]
    i = j - 1
    while i >= 0 and l[i] > key:
        l[i + 1] = l[i]
        i = i - 1
    l[i + 1] = key

print(l)
```

```
Enter values: 9 6 5 0 8 2
[0, 2, 5, 6, 8, 9]
```

Stack

In [7]:

```
def push(x):
    global l, top, size
    if top == size - 1:
        print("Overflow")
        return
    top += 1
    l.insert(top, x)

def display():
    if top == -1:
        print("Underflow")
        return
    for i in range(top, -1, -1):
        print(l[i])

l = list()
top = -1
size = 5

push(10)
push(20)
push(30)

display()
```

```
30
20
10
```

Queue

In [13]:

```
def enqueue(x):
    global f, r
    if r == size - 1:
        print("Overflow")
        return
    if r == -1:
        f = r = 0
    else:
        r += 1
    l.insert(r, x)

def display():
    global f, r
    if f == -1:
        print("Underflow")
        return
    for i in range(f, r + 1):
        print(l[i], end = " ")


l = list()
f = -1
r = -1
size = 5

enqueue(10)
enqueue(20)
enqueue(30)

display()
```

```
10 20 30
```

In [ ]: