In [2]:
```
#multi dimension list (single)
size = int(input())
arr_list = []
for i in range(size):
    arr_list.append(i)
print(arr_list)
```

```
5
[0, 1, 2, 3, 4]
```

In [3]:
```
#multi dimension list (jagged)
size = int(input())
arr_list = []
for i in range(size):
    arr_list.append([int(y) for y in input().split()])
print(arr_list)
```

```
5
1
2
3
4
5
[[1], [2], [3], [4], [5]]
```

In [5]:
```
#insert elements in multi dimensional array
input = [[1,1,1,1,1],[12,12,12,12,12]]
print("Array Before Insertion")
print(input)
input.insert(1,[1,3,5,7,6])
print("Array After Insertion")
for i in input:
    for j in i:
        print(j,end="")
    print()
```

```
Array Before Insertion
[[1, 1, 1, 1, 1], [12, 12, 12, 12, 12]]
Array After Insertion
11111
13576
1212121212
```

In [8]:
```
#insert elements in multi dimensional array
l1 = []
size =  input("Enter Size of Elements")
for i in range(size):
    no = input("Enter Array Elements")
    l1.append(no)
print(l1)
```

In [10]:
```
#updatetion elements in multi dimensional array
input = [[1,1,1,1,1],[12,12,12,12,12]]
print("Array Before Updation")
print(input)
input[0] = [10,8]
input[1][1] = 9
print("Array After Updation")
for i in input:
    for j in i:
        print(j,end="")
    print()
```

```
Array Before Updation
[[1, 1, 1, 1, 1], [12, 12, 12, 12, 12]]
Array After Updation
108
129121212
```

In [13]:
```
#deletion elements in multi dimensional array
input = [[1,1,1,1,1],[12,12,12,12,12],[0,2]]
print("Array Before Deletion")
print(input)
del input[2]
print("Array After Deletion")
for i in input:
    for j in i:
        print(j,end="")
    print()
```

```
Array Before Deletion
[[1, 1, 1, 1, 1], [12, 12, 12, 12, 12], [0, 2]]
Array After Deletion
11111
1212121212
```