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In [1]:
```
nums = [1,2,3]
print(not 4 in nums)
print(4 not in nums)
print(not 3 in nums)
print(3 not in nums)
```

```
True
True
False
False
```

In [1]:
```
nums = [3,2,1]
```

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```
nums1=([1,2,3],[4,5,6],[7,8,9])
for i in range (len(nums)):
    for j in range (len(nums[1])):
        print(nums[i][j],end="\t")
    print("")
for i in range (len(nums1)):
    for j in range (len(nums1[i])):
        print(nums1[i][j],end="\t")
    print("")

print("Suma de matriz A + B")
for i in range (len(nums)):
    for j in range (len(nums[1])):
        suma_de_AB=nums[i][j]+nums1[i][j]
        print(suma_de_AB,end="\t")


print("Resta de matriz A - B")
for i in range (len(nums)):
    for j in range (len(nums[1])):
        sumaconnumerosnegativos_de_AB=nums[i][j]-nums1[i][j]
        print(sumaconnumerosnegativos_de_AB,end="\t")
```

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```
1       2       3
4       5       6
7       8       9
1       2       3
4       5       6
7       8       9
Suma de matriz A + B
2       4       6       8       10      12      14      16      18      Resta de matriz A - B
0       0       0       0       0       0       0       0       0       Producto de la matriz A X B
1       4       9       16      25      36      49      64      81      ([1, 2, 3], [4, 5, 6], [7, 8, 9], [1, 2, 3], [4, 5,
6], [7, 8, 9], [1, 2, 3], [4, 5, 6], [7, 8, 9])
```

In [35]:
```
matriz = []
x=int(input('Ingrese la dimención de la matriz cuadrada'))
filas = x
columnas = x

for i in range(filas):
    matriz.append([0]*columnas)
for f in range(filas):
```

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```
Elemento 0,2:1
Elemento 0,3:0
Elemento 0,4:0
Elemento 0,5:0
Elemento 1,0:1
Elemento 1,1:1
Elemento 1,2:1
Elemento 1,3:0
Elemento 1,4:0
Elemento 1,5:0
Elemento 2,0:1
Elemento 2,1:1
Elemento 2,2:1
Elemento 2,3:0
Elemento 2,4:0
Elemento 2,5:0
Elemento 3,0:0
Elemento 3,1:0
Elemento 3,2:0
Elemento 3,3:1
Elemento 3,4:1
```

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

In [36]:
```
matriz = []
x=int(input('Ingrese la dimención de la matriz cuadrada'))
filas = x
columnas = x

for i in range(filas):
    matriz.append([0]*columnas)
for f in range(filas):
    for c in range(columnas):
        matriz[f][c] = int(input("Elemento %d,%d:" % (f,c)))
print (matriz)
```

```
Ingrese la dimención de la matriz cuadrada7
```

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```
Elemento 1,0:2
Elemento 1,1:1
Elemento 1,2:2
Elemento 1,3:0
Elemento 1,4:2
Elemento 1,5:1
Elemento 1,6:2
Elemento 2,0:0
Elemento 2,1:2
Elemento 2,2:1
Elemento 2,3:2
Elemento 2,4:1
Elemento 2,5:2
Elemento 2,6:0
Elemento 3,0:0
Elemento 3,1:0
Elemento 3,2:2
Elemento 3,3:1
Elemento 3,4:2
Elemento 3,5:0
Elemento 3,6:0
```

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```
Elemento 5,0:2
Elemento 5,1:1
Elemento 5,2:2
Elemento 5,3:0
Elemento 5,4:2
Elemento 5,5:1
Elemento 5,6:2
Elemento 6,0:1
Elemento 6,1:2
Elemento 6,2:0
Elemento 6,3:0
Elemento 6,4:0
Elemento 6,5:2
Elemento 6,6:1
[[1, 2, 0, 0, 0, 2, 1], [2, 1, 2, 0, 2, 1, 2], [0, 2, 1, 2, 1, 2, 0], [0, 0, 2, 1, 2, 0, 0], [0, 2, 1, 2, 1, 2, 0], [2, 1,
2, 0, 2, 1, 2], [1, 2, 0, 0, 0, 2, 1]]
```

In [37]:
```
matriz = []
x=int(input('Ingrese la dimención de la matriz cuadrada'))
filas = x
```

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```
print (matriz)
```

```
Ingrese la dimención de la matriz cuadrada6
Elemento 0,0:1
Elemento 0,1:2
Elemento 0,2:0
Elemento 0,3:0
Elemento 0,4:2
Elemento 0,5:1
Elemento 1,0:2
Elemento 1,1:1
Elemento 1,2:2
Elemento 1,3:0
Elemento 1,4:2
Elemento 1,5:1
```

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

In [ ]: