In [1]:
```
def unique(name):
    for ind,i in enumerate(name):
        if i in name[ind+1:]:
            return "no unique"
    return('unique');
```

In [2]:
```
def reverse(var):
    c = "";
    for i in range(0,len(var)):
        c = c + var[len(var)-1-i];
    return c;
```

In [3]:
```
def removeDuplicate(var):
    result = "";
    for i in var:
        if i not in result:
            result = result + i;
    return result;
```

In [4]:
```
def anagromus(var1,var2):
    if len(var1)!=len(var2):
        return "no"

    if (sorted(var1)==sorted(var2)):
        return "yes"
    return "no"
```

In [5]:
```
def fun3(var):
    return var.replace(' ','%20');
def fun(var):
    l=list(var);
    b='';
    for i in l:
        if i==" ":
            b = b + "%20";
        else:
            b = b+ i;
    return b;

def fun2(var):
    l=list(var);
    for ind,i in enumerate(l):
        if i==" ":
            l[ind]="%20";
    return ''.join(l);
```

In [6]:
```
def findZero(var):
    checkRow = [];
    checkCol = [];
    row = len(var);
    col = len(var[0]);
    for i in range(row):
        for j in range(col):
            if var[i][j] == 0:
                checkRow.append(i);
                checkCol.append(j);
    print(checkRow)
    print(checkCol)
    for i in checkRow:
        for j in range(col):
            var[i][j] = 0
    for i in checkCol:
        for j in range(row):
            var[j][i] = 0

    return var;
```

In [7]:
```
# clock-wise
def myRotation(arr):
    if not arr:
        return "sorry!";
    n = len(arr);
    for row in range(0,n//2):
        for col in range(row,n - row - 1):
            offset = col - row;
            temp = arr[row][col];
            arr[row][col] = arr[n-col-1][row];
            arr[n-col-1][row] = arr[n-row-1][n-col-1];
            arr[n-row-1][n-col-1] = arr[col][n-row-1];
            arr[col][n-row-1] = temp;
    return arr;

if __name__ == '__main__':
    six = [["a","b","c",6],
          [1,2,0,7],
          ["x","y","z",8],
           [1,2,3,9]]
    print(six)
    var=six;
    s=myRotation(var);
    print(s)
```

```
[['a', 'b', 'c', 6], [1, 2, 0, 7], ['x', 'y', 'z', 8], [1, 2, 3, 9]]
[[1, 'x', 1, 'a'], [2, 'y', 2, 'b'], [3, 'z', 0, 'c'], [9, 8, 7, 6]]
```

In [8]:
```
# anticlock-wise
def antiTotation(arr):
    if not arr:
        return arr;
    n = len(arr);
    for row in range(n//2):
        for col in range(row,n-row-1):
            temp = arr[row][col];
            arr[row][col] = arr[col][n-row-1];
            arr[col][n-row-1] = arr[n-row-1][n-col-1]
            arr[n-row-1][n-col-1] = arr[n-col-1][row];
            arr[n-col-1][row] = temp;
    return arr;

if __name__ == '__main__':
    six = [["a","b","c"],
          [1,2,0],
          ["x","y","z"]]
    print(six)
    var=six;
    s=antiTotation(var);
    print(s)
```

```
[['a', 'b', 'c'], [1, 2, 0], ['x', 'y', 'z']]
[['c', 0, 'z'], ['b', 2, 'y'], ['a', 1, 'x']]
```

In [ ]:
```

```