

Set Matrix Zero

Problem Statement: Given a matrix if an element in the matrix is 0 then you will have to set its entire column and row to 0 and then return the matrix

```
class Solution(object):
```

```
    def setZeroes(self, matrix):
```

```
        n=len(matrix)
```

```
        m=len(matrix[0])
```

```
        col=1
```

```
        for i in range(n):
```

```
            for j in range(m):
```

```
                if matrix[i][j]==0:
```

```
                    matrix[i][0]=0
```

```
                    if(j!=0):
```

```
                        matrix[0][j]=0
```

```
                    else:
```

```
                        col=0
```

```
        for i in range(1,n):
```

```
            for j in range(1,m):
```

```
                if matrix[i][j]!=0:
```

```
                    if matrix[0][j]==0 or matrix[i][0]==0:
```

```
                        matrix[i][j]=0
```

```
        if matrix[0][0]==0:
```

```
            for j in range(m):
```

```
                matrix[0][j]=0
```

```
        if col==0:
```

```
            for i in range(n):
```

```
matrix[i][0]=0
```

```
return matrix
```