Print matrix in zag-zag fashion

```python
matrix =[
        [ 1, 2, 3,],
        [ 4, 5, 6 ],
        [ 7, 8, 9 ],
     ]
rows=3
columns=3

solution=[[] for i in range(rows+columns-1)]

for i in range(rows):
    for j in range(columns):
        sum=i+j
        if(sum%2 ==0):
            solution[sum].insert(0,matrix[i][j])
        else:
            solution[sum].append(matrix[i][j])
for i in solution:
    for j in i:
        print(j,end=" ")
```

Program to Print Matrix in Z form

```python
arr = [[4, 5, 6, 8],
       [1, 2, 3, 1],
       [7, 8, 9, 4],
       [1, 8, 7, 5]]

n = len(arr[0])

i = 0
```

```python
for j in range(0, n-1):
    print(arr[i][j], end = ' ')


k = 1
for i in range(0, n):
    for j in range(n, 0, -1):
        if(j == n-k):
            print(arr[i][j], end = ' ')
            break
    k+= 1
i = n-1
for j in range(0, n):
    print(arr[i][j], end = ' ')
```