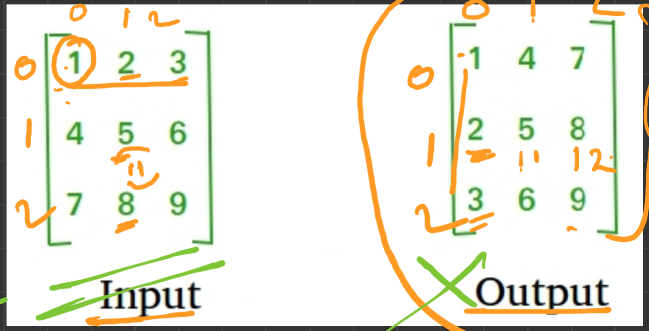
Transpose matrix

Space = O(1)



i → j

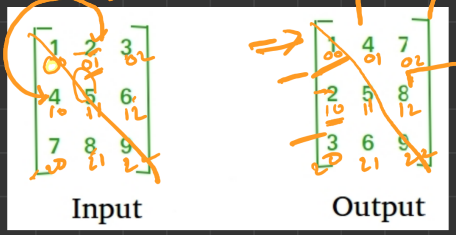
```
For (i=0; i<n; i++) {  -> n
    for(j=0 ; j<n; j++) {  -> n
        output[j][i] = input[i][j]
    }
}
```

$O(n^2)$

Space = $O(n^2)$

= $O(1)$

vector arr



i j (i=j)

```
for( i=0; i= row-1; i++) {
  for(j= i+1; j<col ; j++) {
    swap(input[i][j], input[j][i])
```

4x3

16x4