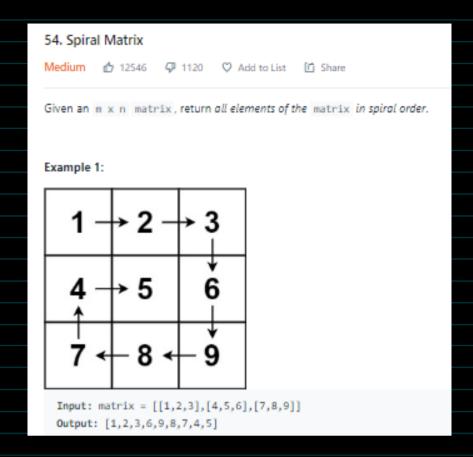
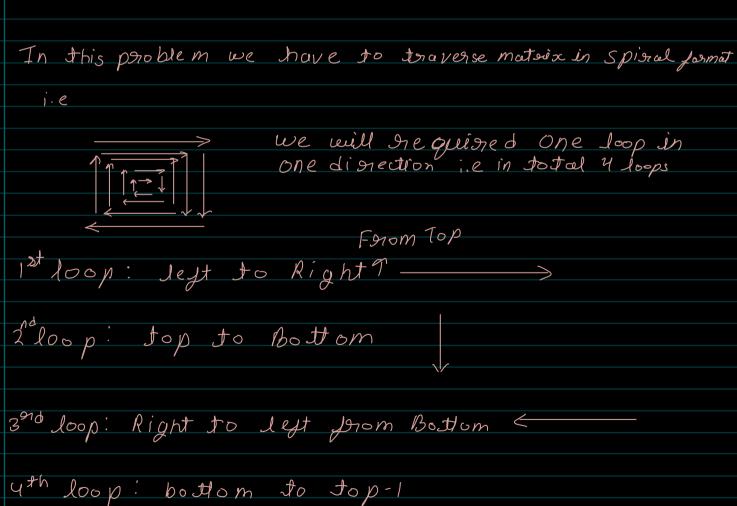
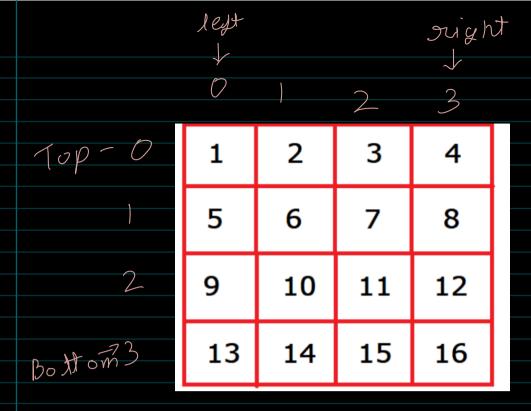
## Spiral matrix







```
Traversing your Bottom - Right to Left

Top++

Sottom to top

Left++
```

```
Ist loop:

Josn (i:left to sight)

a [top][i]

top++

2nd loop:

Josn (i: top to Bottom)

a [i][sight]

3ºnd loop: sight --

iy (top = Bottom)

Josn (i: Right > Left)

a [i] [bottom]

4th loop: Bottom --

iy (left = sight)

Josn (i: Bottom > top)
```

a [ Jest ] [i]

Jest+

## Code

```
class Solution {
public:
   vector<int> spiralOrder(vector<vector<int>>& matrix) {
        int n=matrix.size();
        int m=matrix[0].size();
        int top=0,left=0,right=m-1,bottom=n-1;
        vector<int> ans;
        while(top <=bottom && left<=right){
            for(int i=left;i<=right;i++){
                ans.push_back(matrix[top][i]);
            top++;
            for(int i=top;i<=bottom;i++){</pre>
                ans.push back(matrix[i][right]);
            right--;
            if(top<=bottom){
                for(int i=right;i>=left;i--){
                     ans.push back(matrix[bottom][i]);
            bottom--;
            if(left<=right){
                for(int i=bottom;i>=top;i--){
                     ans.push back(matrix[i][left]);
            left++;
        return ans;
};
```

J. C - O (n) X m)

5. C - O (n)

Storing in one