

# TO BUILD A MATRIX IN WHICH NOS. SPIRAL FROM OUT TO IN \_CLOCKWISE DIRECTION (ALG.)

```
an,m: (1 to n)(1 to m) all elements set to 0  
i ← 1  
j ← 1  
ai,j ← 1  
for x ← 2 to (n*m)  
    if a(i,j+1) ≠ 0 and a(i+1,j) ≠ 0 and a(i,j-1) ≠ 0  
        a(i-1,j) ← x  
    elseif a(i,j+1) ≠ 0 and a(i+1,j) ≠ 0  
        a(i,j-1) ← x  
    elseif a(i,j+1) ≠ 0  
        a(i+1,j) ← x  
    else  
        a(i,j+1) ← x
```

For Example:

1	2	3
8	9	4
7	6	5