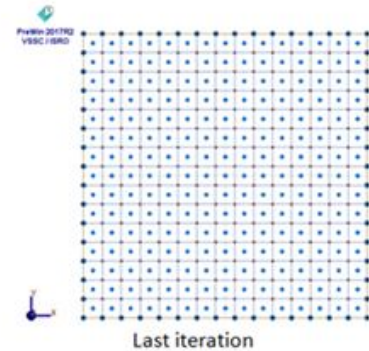
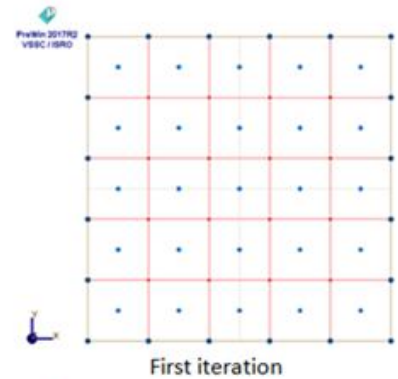


## Convergence study of a rectangular plate in static analysis using script file

```

#
#Script
#
div = 2
SURFACE, RECT2P, CO:0/CO:100:100,1
FEM, QUAD, 1,,,S1(D1):$div/S1(D2):$div/S1(D3):$div/S1(D4):$div
BC, ADD, S1(D3)/S1(D2)/S1(D1)/S1(D4), 1/0/2/0/3/0/4/0/5/0/6/0, 0, 1, 0
MATERIAL, ISO, S1, 50000/0.3/0/0/0, 1
thick = 5
THICKNESS, ADD, S1, $thick, 1
PRESSURE, ADD, S1(F1), .5, 0, 0, 1
i=0
while($div<20)
{
    i=$i+1
    solve
    d = GETINFO(DISPCOMP, 50/50/0)
    echo "DISPLACEMENT", $d
    if (abs($d-$prevDisp)<=.001) {
        echo "converged at iteration ", $i
        break
    }
    prevDisp = $d
    div = $div + 1
    FEM, QUAD, 1,,,S1(D1):$div/S1(D2):$div/S1(D3):$div/S1(D4):$div
}
    
```



<b>Material property :</b>		$E=50GPa, \nu = 0.3$		
<b>Element types :</b>		Quadrilateral shell		
<b>Finite element statistics</b>		Number of elements	Number of Nodes	Degrees of freedom
	First iteration	25	36	96
	Last iteration	225	256	1176

```

Executing script...
DISPLACEMENT0.101726
DISPLACEMENT0.111519
DISPLACEMENT0.115382
DISPLACEMENT0.117315
DISPLACEMENT0.118421
DISPLACEMENT0.119114
converged at iteration 6
The script is successfully executed
    
```