

```
var n: int = 8;  
var LoopSpace = {2..n-1, 2..n-1};
```

```
//Jacobi relaxation pass
```

```
forall (i,j) in LoopSpace {  
     $A_{\text{new}}[i,j] = (A[i+1, j] + A[i-1, j] + A[i, j+1] + A[i, j-1])/4.0;$   
}
```

```
//update state of the system after the first relaxation pass
```

```
A[LoopSpace] =  $A_{\text{new}}$ [LoopSpace];
```