```
1   var n: int = 8;
2   var LoopSpace = {2..n-1, 2..n-1};
3
4   //Jacobi relaxation pass
5   forall (i,j) in LoopSpace {
6        A_new[i,j] = (A[i+1, j] + A[i-1, j] +
7                      A[i, j+1] + A[i, j-1])/4.0;
8   }
9
10  //update state of the system after the first
11  //relaxation pass
12  A[LoopSpace] =  A_new[LoopSpace];
```