

For each element (ex, ey), specify position and coefficient:

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DMStagStencil row,col[5],point;
PetscScalar valA[5], valRhs;
             x[2];
PetscReal
row.i = ex; row.j = ey; row.loc = ELEMENT; row.c = 0;
col[0].i = ex; col[0].j = ey; col[0].loc = LEFT;
                                                  col[0].c = 0; valA[0] = -1.0 / hx;
col[1].i = ex; col[1].j = ey; col[1].loc = RIGHT;
                                                  col[1].c = 0; valA[1] = 1.0 / hx;
col[2].i = ex; col[2].j = ey; col[2].loc = DOWN; col[2].c = 0; valA[2] = -1.0 / hy;
col[3].i = ex; col[3].j = ey; col[3].loc = UP;
                                                  col[3].c = 0; valA[3] = 1.0 / hy;
                                                                valA[4] = 0.0;
col[4] = row;
ierr = DMStagMatSetValuesStencil(dmSol,A,1,&row,5,col,valA,INSERT_VALUES);CHKERRQ(ierr);
point.i = ex; point.j = ey; point.loc = ELEMENT; point.c = 0;
ierr = DMStagGetCoordinateStencil(dmSol,point,x);CHKERRQ(ierr);
valRhs = g(x[0],x[1]);
ierr = DMStagVecSetValuesStencil(dmSol,rhs,1,&row,&valRhs,INSERT_VALUES);CHKERRQ(ierr);
```

## (Use Computer Modern - this part cut off below)