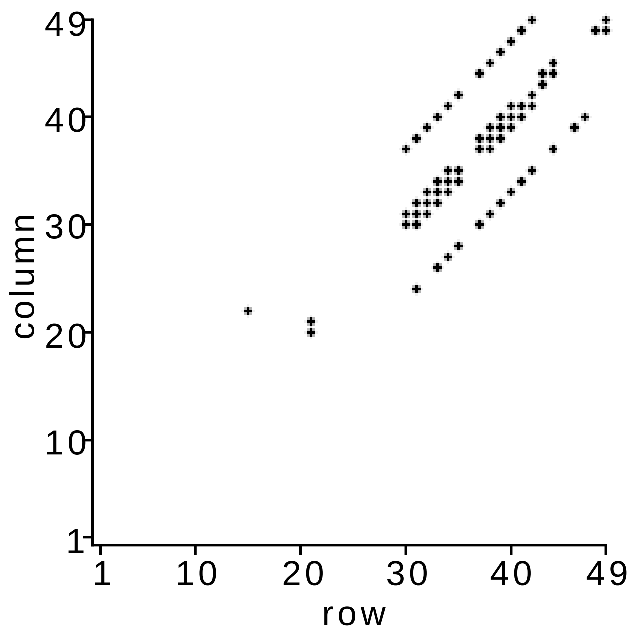
```
> sparsematrixplot(K);
```



The above plot is schematic; there is a box at position i, j if K_{ij} is nonzero.

F:=load(T,f) assembles the load vector for the BVP

$$-div(a(x, y)\ grad\ u) = f(x, y) \text{ in } \Omega,$$
$$u = 0 \text{ on } \Gamma_1,$$
$$\frac{\partial}{\partial n} u = 0 \text{ on } \Gamma_2,$$

The domain Ω and the boundary conditions are defined by the mesh T, while the input f must be a function of two variables representing the right hand side $f(x, y)$ in the PDE.

Here is an example:

```
> f:=(x,y)->1:
> F:=load(T,f):
```

Now that I have compute K and F for the problem

$$-div((1 + x^2)\ grad\ u) = 1 \text{ in } \Omega,$$
$$u = 0 \text{ on bndy } \Omega,$$

I can solve for the nodal values of the approximate solution:

```
> u:=LinearSolve(K,F):
```