**Ah \* u = Fh**

**Ah – 9x9**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** |  |  |  | **1** |  |  |  |  |  |
| **2** |  |  |  | **2** | **1** |  |  |  |  |
| **1** | **1** |  |  | **1** | **2** | **1** |  |  |  |
|  | **2** |  |  |  | **1** | **2** |  |  |  |
|  | **1** | **1** |  |  |  | **1** |  |  |  |
|  |  | **2** |  |  |  |  |  |  |  |
|  |  | **1** | **1** |  |  |  |  |  |  |
|  |  |  | **2** |  |  |  |  |  |  |
|  |  |  | **1** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

A2h = R\*Ah\*I

I\*v = u

**F2h = R \* Fh**

***A2h \* v = F2h ----------------------Solve using Multigrid***