```
initial matrix

+1.00   -1.00   +0.00   +0.00   +0.00   +0.00   +0.00   +0.00   +0.00   +0.00
-1.00   +2.00   -1.00   +0.00   +0.00   +0.00   +0.00   +0.00   +0.00   +0.00
+0.00   -1.00   +2.00   -1.00   +0.00   +0.00   +0.00   +0.00   +0.00   +0.00
+0.00   +0.00   -1.00   +2.00   -1.00   +0.00   +0.00   +0.00   +0.00   +0.00
+0.00   +0.00   +0.00   -1.00   +2.00   -1.00   +0.00   +0.00   +0.00   +0.00
+0.00   +0.00   +0.00   +0.00   -1.00   +2.00   -1.00   +0.00   +0.00   +0.00
+0.00   +0.00   +0.00   +0.00   +0.00   -1.00   +2.00   -1.00   +0.00   +0.00
+0.00   +0.00   +0.00   +0.00   +0.00   +0.00   -1.00   +2.00   -1.00   +0.00
+0.00   +0.00   +0.00   +0.00   +0.00   +0.00   +0.00   -1.00   +2.00   -1.00
+0.00   +0.00   +0.00   +0.00   +0.00   +0.00   +0.00   +0.00   -1.00   +1.00

  S = 1.80000e+01.

**********

sweep    1 ...

+0.16   -0.11   -0.22   +0.09   +0.11   -0.05   -0.04   +0.03   +0.01   +0.02
-0.11   +3.63   -0.11   +0.33   +0.09   -0.13   -0.06   +0.04   +0.04   +0.02
-0.22   -0.11   +0.48   -0.08   -0.36   +0.14   +0.15   +0.02   -0.12   +0.01
+0.09   +0.33   -0.08   +3.40   -0.08   +0.40   +0.07   -0.14   -0.03   -0.07
+0.11   +0.09   -0.36   -0.08   +0.63   +0.01   -0.38   +0.31   -0.14   +0.23
-0.05   -0.13   +0.14   +0.40   +0.01   +3.23   -0.05   +0.34   +0.20   +0.03
-0.04   -0.06   +0.15   +0.07   -0.38   -0.05   +0.72   +0.17   -0.50   -0.27
+0.03   +0.04   +0.02   -0.14   +0.31   +0.34   +0.17   +2.86   -0.09   -0.04
+0.01   +0.04   -0.12   -0.03   -0.14   +0.20   -0.50   -0.09   +1.89   +0.00
+0.02   +0.02   +0.01   -0.07   +0.23   +0.03   -0.27   -0.04   +0.00   +0.99

  S = 2.91374e+00.

**********

sweep    2 ...

+0.03   -0.04   -0.05   +0.01   -0.00   +0.01   +0.01   -0.02   +0.01   -0.01
-0.04   +3.89   -0.03   +0.03   +0.02   +0.05   +0.01   -0.04   +0.02   -0.02
-0.05   -0.03   +0.13   -0.03   -0.06   -0.04   -0.10   +0.01   -0.01   +0.08
+0.01   +0.03   -0.03   +2.58   -0.01   +0.05   +0.26   -0.01   -0.05   -0.09
-0.00   +0.02   -0.06   -0.01   +1.39   -0.08   -0.01   +0.04   +0.05   +0.00
+0.01   +0.05   -0.04   +0.05   -0.08   +3.62   +0.02   +0.00   -0.00   -0.01
+0.01   +0.01   -0.10   +0.26   -0.01   +0.02   +0.37   +0.01   +0.03   -0.00
-0.02   -0.04   +0.01   -0.01   +0.04   +0.00   +0.01   +3.18   +0.00   -0.00
+0.01   +0.02   -0.01   -0.05   +0.05   -0.00   +0.03   +0.00   +2.00   +0.00
-0.01   -0.02   +0.08   -0.09   +0.00   -0.01   -0.00   -0.00   +0.00   +0.82

  S = 2.53839e-01.

**********

sweep    3 ...

+0.00   -0.01   -0.01   +0.02   -0.00   +0.00   +0.00   -0.00   +0.00   -0.00
-0.01   +3.90   -0.01   +0.01   -0.01   +0.00   +0.00   -0.00   -0.00   -0.00
-0.01   -0.01   +0.10   +0.10   -0.00   +0.01   -0.01   -0.00   +0.01   +0.01
+0.02   +0.01   +0.10   +2.61   +0.00   +0.00   -0.00   -0.00   +0.00   +0.00
-0.00   -0.01   -0.00   +0.00   +1.38   +0.00   -0.00   -0.00   -0.00   +0.00
+0.00   +0.00   +0.01   +0.00   +0.00   +3.62   -0.00   -0.00   +0.00   +0.00
+0.00   +0.00   -0.01   -0.00   -0.00   -0.00   +0.38   -0.00   -0.00   -0.00
-0.00   -0.00   -0.00   -0.00   -0.00   -0.00   -0.00   +3.18   -0.00   -0.00
+0.00   -0.00   +0.01   +0.00   -0.00   +0.00   -0.00   -0.00   +2.00   +0.00
-0.00   -0.00   +0.01   +0.00   +0.00   +0.00   -0.00   -0.00   +0.00   +0.82

  S = 2.12206e-02.

**********

sweep    4 ...

+0.00   -0.00   -0.00   -0.00   -0.00   -0.00   +0.00   -0.00   -0.00   -0.00
-0.00   +3.90   +0.00   +0.00   -0.00   +0.00   -0.00   -0.00   +0.00   +0.00
-0.00   +0.00   +0.10   -0.00   -0.00   -0.00   +0.00   +0.00   -0.00   +0.00
-0.00   +0.00   -0.00   +2.62   -0.00   +0.00   -0.00   -0.00   +0.00   +0.00
-0.00   -0.00   -0.00   -0.00   +1.38   +0.00   -0.00   -0.00   +0.00   +0.00
-0.00   +0.00   -0.00   -0.00   +0.00   +3.62   -0.00   -0.00   +0.00   +0.00
+0.00   -0.00   +0.00   -0.00   -0.00   -0.00   +0.38   -0.00   +0.00   -0.00
-0.00   -0.00   -0.00   -0.00   -0.00   -0.00   -0.00   +3.18   -0.00   +0.00
-0.00   +0.00   -0.00   +0.00   +0.00   +0.00   +0.00   -0.00   +2.00   +0.00
-0.00   +0.00   +0.00   +0.00   +0.00   +0.00   -0.00   +0.00   +0.00   +0.82

  S = 7.26279e-06.

**********

sweep    5 ...

+0.00   +0.00   -0.00   -0.00   +0.00   -0.00   +0.00   +0.00   -0.00   -0.00
+0.00   +3.90   -0.00   +0.00   +0.00   +0.00   -0.00   -0.00   +0.00   -0.00
-0.00   -0.00   +0.10   +0.00   +0.00   +0.00   +0.00   -0.00   -0.00   -0.00
-0.00   +0.00   +0.00   +2.62   -0.00   +0.00   -0.00   -0.00   +0.00   +0.00
+0.00   +0.00   +0.00   -0.00   +1.38   +0.00   -0.00   +0.00   +0.00   +0.00
-0.00   +0.00   +0.00   +0.00   +0.00   +3.62   +0.00   -0.00   -0.00   -0.00
+0.00   -0.00   +0.00   -0.00   -0.00   +0.00   +0.38   +0.00   +0.00   -0.00
+0.00   -0.00   -0.00   -0.00   +0.00   -0.00   +0.00   +3.18   +0.00   -0.00
-0.00   +0.00   -0.00   +0.00   +0.00   -0.00   +0.00   +0.00   +2.00   +0.00
-0.00   -0.00   -0.00   +0.00   +0.00   -0.00   -0.00   -0.00   +0.00   +0.82

  S = 2.26242e-10.

**********

sweep    6 ...

+0.00   -0.00   +0.00   +0.00   +0.00   -0.00   -0.00   -0.00   +0.00   -0.00
-0.00   +3.90   +0.00   +0.00   +0.00   -0.00   -0.00   +0.00   -0.00   +0.00
+0.00   +0.00   +0.10   +0.00   -0.00   -0.00   +0.00   +0.00   -0.00   -0.00
+0.00   +0.00   +0.00   +2.62   -0.00   -0.00   +0.00   -0.00   +0.00   -0.00
+0.00   +0.00   -0.00   -0.00   +1.38   -0.00   -0.00   +0.00   -0.00   +0.00
-0.00   -0.00   -0.00   -0.00   -0.00   +3.62   -0.00   -0.00   +0.00   +0.00
-0.00   -0.00   +0.00   +0.00   -0.00   -0.00   +0.38   -0.00   +0.00   -0.00
-0.00   +0.00   +0.00   -0.00   +0.00   +0.00   -0.00   +3.18   -0.00   +0.00
+0.00   -0.00   -0.00   +0.00   -0.00   +0.00   +0.00   -0.00   +2.00   +0.00
-0.00   +0.00   -0.00   -0.00   +0.00   +0.00   -0.00   +0.00   +0.00   +0.82

  S = 1.12777e-32.

**********

\lambda_00 =  +0.000000.
v_00 = ( +0.32 , +0.32 , +0.32 , +0.32 , +0.32 , +0.32 , +0.32 , +0.32 , +0.32 ,
 +0.32 ).

\lambda_01 =  +3.902113.
v_01 = ( -0.07 , +0.20 , -0.32 , +0.40 , -0.44 , +0.44 , -0.40 , +0.32 , -0.20 ,
 +0.07 ).

\lambda_02 =  +0.097887.
v_02 = ( -0.44 , -0.40 , -0.32 , -0.20 , -0.07 , +0.07 , +0.20 , +0.32 , +0.40 ,
 +0.44 ).

\lambda_03 =  +2.618034.
v_03 = ( +0.26 , -0.43 , -0.00 , +0.43 , -0.26 , -0.26 , +0.43 , +0.00 , -0.43 ,
 +0.26 ).

\lambda_04 =  +1.381966.
v_04 = ( +0.36 , -0.14 , -0.45 , -0.14 , +0.36 , +0.36 , -0.14 , -0.45 , -0.14 ,
 +0.36 ).

\lambda_05 =  +3.618034.
v_05 = ( +0.14 , -0.36 , +0.45 , -0.36 , +0.14 , +0.14 , -0.36 , +0.45 , -0.36 ,
 +0.14 ).
```

```
\lambda_06 =  +0.381966.
v_06 = ( +0.43 , +0.26 , +0.00 , -0.26 , -0.43 , -0.43 , -0.26 , -0.00 , +0.26 ,
 +0.43 ).

\lambda_07 =  +3.175571.
v_07 = ( -0.20 , +0.44 , -0.32 , -0.07 , +0.40 , -0.40 , +0.07 , +0.32 , -0.44 ,
 +0.20 ).

\lambda_08 =  +2.000000.
v_08 = ( +0.32 , -0.32 , -0.32 , +0.32 , +0.32 , -0.32 , -0.32 , +0.32 , +0.32 ,
 -0.32 ).

\lambda_09 =  +0.824429.
v_09 = ( -0.40 , -0.07 , +0.32 , +0.44 , +0.20 , -0.20 , -0.44 , -0.32 , +0.07 ,
 +0.40 ).
```