

```

./main.out
1.000000000    0.000000000    0.000000000    0.000000000
0.000000000    1.000000000    0.000000000    0.000000000
0.000000000    0.000000000    1.000000000    0.000000000
0.000000000    0.000000000    0.000000000    1.000000000

1    6.000000000
2    0.434753239
3    7.02962605E-03
4    7.02673546E-15
5    2.18151595E-38
6    0.000000000
7    0.000000000
8    0.000000000
9    0.000000000
10   0.000000000

A
0.000000000    1.000000000    0.000000000    0.000000000
1.000000000    0.000000000    1.000000000    0.000000000
0.000000000    1.000000000    0.000000000    1.000000000
0.000000000    0.000000000    1.000000000    0.000000000

NA
-1.61803412    0.000000000    0.000000000    0.000000000
0.000000000    1.61803401    0.000000000    0.000000000
0.000000000    0.000000000    0.618034065    0.000000000
0.000000000    0.000000000    0.000000000    -0.618034184

NX
0.371748030    0.371748000    -0.601501107    0.601501107
-0.601500988    0.601500928    -0.371748120    -0.371748149
0.601501048    0.601501048    0.371748000    -0.371748149
-0.371748120    0.371748060    0.601501048    0.601501048

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check
-----
A*NX ?= NA*NX
A*NX
-0.601500988    0.601500928    -0.371748120    -0.371748149
0.973249078    0.973249078    -0.229753107    0.229752958
-0.973249078    0.973248959    0.229752928    0.229752898
0.601501048    0.601501048    0.371748000    -0.371748149

NX*NA
-0.601500988    0.601500928    -0.371748179    -0.371748239
0.973249137    0.973248959    -0.229753003    0.229753062
-0.973249197    0.973249137    0.229752928    0.229753062
0.601501167    0.601500988    0.371748149    -0.371748209

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result
-----
Eigenvektoren
0.371748030    |    0.371748000    |    -0.601501107    |    0.601501107    |
-0.601500988    |    0.601500928    |    -0.371748120    |    -0.371748149    |
0.601501048    |    0.601501048    |    0.371748000    |    -0.371748149    |
-0.371748120    |    0.371748060    |    0.601501048    |    0.601501048    |

Eigenwerte
-1.61803412    |    1.61803401    |    0.618034065    |    -0.618034184    |

```