
```

mat_5 = [9 1 6 4 9; 6 8 4 0 8; 6 9 4 3 6; 2 7 1 0 8; 8 6 0 9 8];
mat_6 = [8 1 8 5 0 6; 9 2 7 7 1 5; 0 9 4 1 0 0; 2 6 6 6 1 1; 8 5 5 5 6
3; 5 0 4 2 5 4];
mat_7 = [2 6 3 5 8 8 4; 8 2 6 6 8 7 2; 4 5 7 3 9 9 4; 7 5 9 9 0 5 5; 2
1 6 9 9 5 0; 8 3 0 4 4 8 9; 2 6 7 7 4 8 7];
mat_8 = [7 4 8 1 7 8 8 3; 9 9 4 8 9 1 4 1; 9 2 6 2 8 2 0 3; 5 8 5 1 0
5 4 1; 2 2 7 2 8 4 4 3; 0 3 8 1 0 7 3 3; 1 5 4 1 2 7 6 6; 5 4 2 9 3 8
2 0];
mat_9 = [9 0 5 6 1 5 1 6 2; 3 9 2 8 4 8 9 6 3; 8 9 4 7 5 2 0 8 3; 0 8
6 1 2 6 7 4 2; 5 5 4 1 2 4 8 2 3; 7 3 1 8 9 7 5 8 3; 9 9 4 6 6 0 1 0
0; 2 1 3 5 5 9 9 6 7; 9 2 4 5 8 6 7 9 1];
mat_10 = [4 4 7 7 0 7 1 7 8 9; 0 4 2 7 7 8 4 1 6 6; 1 9 1 2 6 7 1 1 5
1; 2 4 4 6 8 5 7 7 8 9; 6 5 3 5 3 5 5 1 4 9; 6 2 9 8 1 5 7 9 3 2; 2 2
4 5 2 6 8 3 2 3; 1 4 3 1 3 5 6 9 1 8; 9 1 4 2 5 1 6 9 6 0; 6 5 4 0 9
2 9 3 3 2];

```

```

mat_list = {mat_5, mat_6, mat_7, mat_8, mat_9, mat_10};

```

```

for i = 1:length(mat_list)
    tic
        inv(mat_list{i})
        norm(inv(mat_list{i}), 'fro')
    toc
end

```

```

ans =

```

```

-0.1055    0.5450   -0.2996   -0.3483    0.1468
-0.0832    0.0162    0.1099   -0.0054    0.0003
 0.1684   -0.3987    0.3629    0.1329   -0.1958
 0.0798   -0.4058    0.2523    0.1353   -0.0085
 0.0781   -0.1006   -0.0666    0.2002   -0.0125

```

```

ans =

```

```

1.1176

```

```

Elapsed time is 0.000390 seconds.

```

```

ans =

```

```

 0.5530   -0.5563   -0.2026   -0.0524    0.5394   -0.5256
-0.4834    0.5762    0.3089   -0.1698   -0.2860    0.2619
 1.2616   -1.4967   -0.4747    0.3721    0.7544   -0.6803
-0.6954    0.8013    0.1192    0.0397   -0.4437    0.3642
-0.0099   -0.1457   -0.0671    0.0837    0.0807    0.1156
-1.5927    1.9735    0.7523   -0.4311   -1.3076    1.2607

```

```

ans =

```

4.3932

Elapsed time is 0.000208 seconds.

ans =

0.0317	-0.1095	0.1244	0.1633	0.0330	0.0838	-0.2823
0.2668	-0.5020	0.2989	0.3558	0.1133	0.0806	-0.5376
-0.1705	-0.2307	0.2811	0.1194	0.1160	0.0294	-0.1204
0.0715	0.1382	-0.2417	-0.0400	0.0123	-0.0367	0.1335
-0.0232	-0.9301	0.6826	0.4008	0.4936	0.3240	-0.8139
0.0517	1.8465	-1.2405	-0.9292	-0.8857	-0.6020	1.5895
-0.1845	-1.0247	0.6965	0.4019	0.4954	0.4172	-0.6804

ans =

3.9878

Elapsed time is 0.000221 seconds.

ans =

Columns 1 through 7

0.1250	0.0567	0.0763	-0.0931	-0.2382	0.0665	-0.0087
-0.1864	-0.0872	-0.0045	0.2915	0.2466	-0.1881	0.0321
0.0532	0.1051	-0.0061	-0.1118	-0.1046	0.2536	-0.0970
0.0674	0.1942	-0.0426	-0.2689	-0.2319	0.2421	-0.0050
-0.1219	-0.1455	0.0132	0.1976	0.3560	-0.2682	0.0018
-0.0912	-0.2289	0.0318	0.2316	0.2449	-0.2239	0.0188
0.2511	0.1875	-0.1308	-0.2508	-0.2632	0.1649	-0.0004
-0.0164	0.0888	0.0915	-0.1933	-0.1986	0.1220	0.1848

Column 8

-0.0244
0.0293
-0.0797
-0.0044
0.0685
0.1492
-0.0974
-0.0660

ans =

1.2745

Elapsed time is 0.001551 seconds.

ans =

Columns 1 through 7

0.0655	-0.0589	-0.0143	-0.0214	0.2197	0.1992	-0.0553
-0.0134	-0.0115	0.0339	0.0668	0.1119	0.1587	-0.0439
0.0193	-0.0120	-0.0049	0.0534	-0.2321	-0.3169	0.1427
0.0022	0.1901	-0.0016	-0.1378	-0.2699	-0.3570	0.1411
-0.0806	-0.0995	-0.0245	0.0567	-0.0665	0.0806	0.0723
0.1485	-0.1293	-0.1451	0.2253	0.1841	0.5421	-0.1056
-0.0758	0.1381	-0.0001	-0.1352	-0.0380	-0.2951	0.0415
-0.0373	0.0378	0.1166	-0.0295	-0.0373	-0.1014	-0.1003
-0.0305	-0.0849	0.1067	-0.0589	0.1050	0.0229	-0.0231

Columns 8 through 9

-0.1448	-0.1115
-0.1227	-0.1274
0.1963	0.1781
0.2012	0.1776
0.0502	0.0263
-0.2521	-0.3388
0.1133	0.2138
-0.0051	0.1221
0.1208	-0.1160

ans =

1.3348

Elapsed time is 0.000961 seconds.

ans =

Columns 1 through 7

-0.0112	0.0892	-0.0331	-0.1437	0.0979	0.0028	-0.0701
-0.0962	-0.2371	0.1797	0.1765	0.0952	0.0802	-0.0005
0.1820	0.0426	-0.0854	-0.0820	-0.1354	0.0379	-0.0511
-0.1794	-0.0122	0.0520	0.1357	0.1197	0.1741	-0.0942
-0.0244	0.2233	-0.0741	-0.0922	-0.0420	0.0574	-0.1984
0.1062	0.2293	-0.0560	-0.2743	-0.0782	-0.0988	0.0657
-0.0414	-0.1723	0.0350	0.1318	0.0149	-0.0605	0.2218
-0.0601	-0.0121	0.0326	0.0339	-0.0112	0.0487	-0.0555
0.1053	-0.1525	0.0464	0.1355	-0.0625	-0.1447	0.1865
0.0319	0.0278	-0.0661	-0.0044	0.0498	-0.0275	-0.0539

Columns 8 through 10

0.0269	0.0970	0.0002
-0.0432	-0.0785	-0.0749
-0.0291	-0.1260	0.2286
-0.0525	-0.0226	-0.1541
0.0545	-0.0013	0.1030

0.1005	0.0811	0.0467
-0.0535	-0.0057	-0.0331
0.0772	0.0518	-0.0862
-0.1208	0.0414	-0.0200
0.0458	-0.0321	0.0274

ans =

1.0357

Elapsed time is 0.000227 seconds.

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