
```

[1 -1; 1 1] \ [0; 2]
M = [1 4 7; 2 5 8; 3 6 10]; b = [12; 15; 19];
M \ b
M = [1 -1/3 -1/3 0; -1/2 1 0 -1/2; -1/2 0 1 -1/2; 0 -1/3 -1/3 1];
b = [2 0 0 4]';
reshape(M \ b, [2, 2])
m = hilb(5); b = m * ones(5, 1); x = m \ b;
cond(m)
[min(x) max(x)]
m = hilb(25); b = m * ones(25, 1); x = m \ b;
cond(m)
[min(x) max(x)]
m = hilb(100); b = m * ones(100, 1); x = m \ b;
cond(m)
[min(x) max(x)]

```

```
ans =
```

```

1
1

```

```
ans =
```

```

1
1
1

```

```
ans =
```

```

8.0000    9.0000
9.0000   10.0000

```

```
ans =
```

```
4.7661e+05
```

```
ans =
```

```
1.0000    1.0000
```

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND = 4.512975e-20.

```
ans =
```

```
8.9640e+18
```

ans =

-104.7468 74.0750

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND = 6.925554e-21.

ans =

5.6675e+19

ans =

-328.5181 400.4187

Published with MATLAB® R2021b