

```
A = [2 0 4; 0 3 0; 0 1 2]
```

```
A = 3×3
```

```
2    0    4
0    3    0
0    1    2
```

```
[V, D] = eig(A)
```

```
V = 3×3
```

```
1.0000  -1.0000  0.9428
0         0      0.2357
0    0.0000  0.2357
```

```
D = 3×3
```

```
2    0    0
0    2    0
0    0    3
```