

```

Scilab 5.5.2 Console
enter row2
enter col2

enter elements
1
2
3
4
enter row2
enter col2

enter elements
1
2
3
4

Matrix A is
1. 2.
3. 4.

Matix B is
1. 2.
3. 4.

Matrix C is
7. 10.
15. 22.

-->

```

```

Scilab 5.5.2 Console
enter row2
enter col2

enter elements
1
2
3
4

1. 2.
3. 4.

1. 3.
2. 4.

-->

```

```

Scilab 5.5.2 Console
enter row2
enter col2

enter elements
1
2
3
4

1. 2.
3. 4.

1. 3.
2. 4.

-->

```

```

Scilab 5.5.2 Console
enter 3*3 matrix
4
3
5
1
4
6
2
6
7

4. 3. 5. 1. 0. 0.
1. 4. 6. 0. 1. 0.
2. 6. 7. 0. 0. 1.

1. 0.75 1.25 0.25 0. 0.
0. 3.25 4.75 - 0.25 1. 0.
0. 4.5 4.5 - 0.5 0. 1.

1. 0. 0.1538462 0.3076923 - 0.2307692 0.
0. 1. 1.4615385 - 0.0769231 0.3076923 0.
0. 0. - 2.0769231 - 0.1538462 - 1.3846154 1.

1. 0. 0. 0.2962963 - 0.3333333 0.0740741
0. 1. 0. - 0.1851852 - 0.6666667 0.7037037
0. 0. 1. 0.0740741 0.6666667 - 0.4814815

-->

```

Enter the no. of pairs of values (x, f) to find the mean = 4
Enter the no. of moments to be found about mean = 4

Enter the values of x :

1
2
3
4

Enter the corresponding frequencies :

4
3
2
1

Average = 2.000000
Moment about mean M(1) = 0.000000
Moment about mean M(2) = 1.000000
Moment about mean M(3) = 0.600000
Moment about mean M(4) = 2.200000
Standard deviation = 1.000000

```
-->eigen([1, 3; -2, 6])
```

The characteristic equation of the matrix A is :

$$e^2 - 7.000000 e + 12.000000 = 0$$

Eigen values of the matrix are :

3.

4.

Eigen vectors of the matrix are :

3.

2.

3.

3.

```
-->|
```