```
format long e;
load matrices.mat A;
[V,D]=eig(A');
e = diag(D);
x = V(:,1:1);x
[y,b] = sort(x);b'
```

x =

*   -1.611685764370067e-01*
*   -1.785251923609917e-01*
*   -2.057998745272545e-01*
*   -2.717395180598953e-01*
*   -1.931698370468546e-01*
*   -1.720939462820155e-01*
*   -7.479616674742428e-01*
*   -1.785251923609919e-01*
*   -3.296982176632033e-01*
*   -2.429151380432770e-01*

ans =

*   7   9   4   10   3   5   8   2   6   1*

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