```
>> A=randn(20,20);
>> A=A+A';
>> v0=randn(20,1);
\gg [lam,v] = rqi(A,v0);
lam =
   -0.3967
lam =
   -0.3474
lam =
   -0.3474
\gg [V,D] = eig(A);
>> D
D =
  Columns 1 through 10
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  -11.1051
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0	0 0	1.5964	0	0	0	0	0	0 ⊾
	0	0	2.0711	0	0	0	0	0 ⊭
0	0	0	0	3.6704	0	0	0	0 ⊭
0	0 0	U	U	3.0704	U	V	U	UE
	0	0	0	0	4.2704	0	0	0 ⊭
0	0 0	0	0	0	0	6.2198	0	0 ⊭
0	0							
0	0	0	0	0	0	0	6.9587	0 ⊭
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q	0 0088	0	0	0	0	0	0	0 ⊭
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0	10.0534							

>> norm(v-V(:,10))

ans =

1.2082e-09

>>