程序输出：

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| --- | --- | --- | --- |
| 幂法: |  |  |  |
| 矩阵 | 最大特征值 | 特征向量 | 运行时间 |
| A | 1020.046724 | [0.539287451525195, 0.39030024190089235, 0.39092036406918346, 0.5395975126093406, -0.0011534496590837912, 0.1907925681100893, -0.23751488679181823, -0.1415418779072318] | 1.498459ms |
| B | 1.751919645 | [0.6994934422919677, 0.42600128182004937, 0.31698484396253346, 0.2555324951928817, 0.21528771724942253, 0.18658802604475297, 0.1649560287100346, 0.14800128391847198, 0.13431920289873905, 0.12302508808514366] | 0.015ms |
| C | 63.40913895 | [0.3992104319688878, 0.3929146772360028, 0.3804224510833788, 0.3619307550011227, 0.3377312029836957, 0.3082054241429132, 0.2738190459007158, 0.23511435241489137, 0.19270173378838606, 0.1472500607196383, 0.09947613626261742, 0.05013339100507969] | 0.111375ms |
| D | 1.000216981 | [0.0, 0.9343865789276027, 0.021274753464071802, 0.2790198562255629, 0.04062759485421661, 0.13145212413139096, 0.0563106165229637, 0.06037525509502826, 0.0669080977850853, 0.01885314204909789, 0.07146445542718953, -0.005585417211716276, 0.06957022861271753, -0.017918563413799642, 0.06139799834249738, -0.02102569215146073, 0.047684173740902266, -0.01722986905952806, 0.029655645359842147, -0.008787206296770943] | 0.028708ms |
| E | 1.006998656 | [1.3951033035014963E-122, -4.9498265208232653E-119, 1.1703038907331022E-115, -2.0743631513417664E-112, 2.940200926347104E-109, -3.471394461222942E-106, 3.51155925398721E-103, -3.1068468428735104E-100, 2.442321361277843E-97, -1.727204695740748E-94, 1.1099605484006237E-91, -6.535788909087417E-89, 3.5509256056587584E-86, -1.790669851215502E-83, 8.424443210641364E-81, -3.7140950637691175E-78, 1.5404606800788102E-75, -6.031693345640782E-73, 2.236460834916213E-70, -7.87447002925976E-68, 2.639406889563915E-65, -8.441159952804793E-63, 2.5811117129209776E-60, -7.560351637831905E-58, 2.1250161459062765E-55, -5.74067327383349E-53, 1.4927483165745173E-50, -3.741360418110614E-48, 9.049943878950004E-46, -2.1152037105787746E-43, 4.782238035710219E-41, -1.0469715798737322E-38, 2.221710750029553E-36, -4.573913290704633E-34, 9.143487133132922E-32, -1.7762899652248323E-29, 3.356054892645265E-27, -6.1712717529026615E-25, 1.1052269157283208E-22, -1.929056327240475E-20, 3.2834200075163457E-18, -5.45323683985053E-16, 8.842494902295712E-14, -1.4006274715921708E-11, 2.1683135866713487E-9, -3.2823702750878833E-7, 4.860984681416757E-5, -0.007045773256800979, 0.999975177050005, 1.9652110205683884E-126] | 32.941833ms |
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|  |  |  |  |
| Jacobi方法: |  |  |  |
| 矩阵 | 最大特征值 | 运行时间 |  |
| A | 1020.049018 | 0.261666ms |  |
| B | 1.75191967 | 0.001292ms |  |
| C | 63.40913895 | 0.00125ms |  |
| D | 1.000253575 | 0.001834ms |  |