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H29年度・dsp2-3・5J16杉山隼太
-----how to use-----
プログラムを実行すると、課題の行列の固有値・固有ベクトルをパワー法で求めてくれる。

matrix of the challenges:
[2 1 3]
[1 2 3]
[3 3 20]

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e = 0.930955
e = 0.14848
e = 0.00129919
e = 1.11961e-05

eigen value:20.9997

eigen vector:
[0.162477]
[0.162446]
[0.973248]

the residual matrix:
[1.44563 0.445737 -0.320709]
[0.445737 1.44585 -0.320061]
[-0.320709 -0.320061 0.108785]

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e = 0.13034
e = 0.0496379
e = 0.0153008
e = 0.00404962
e = 0.00102726
e = 0.000257754
e = 6.44963e-05

eigen value:1.99977

eigen vector:
[0.693306]
[0.681945]
[-0.232978]

the residual matrix:
[0.484396 -0.499744 0.00230306]
[-0.499744 0.515857 -0.00234214]
[0.00230306 -0.00234214 0.000240144]

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e = 0.608018
e = 1.98793e-08

eigen value:1.00013

eigen vector:
[0.695891]
[-0.71814]
[0.00328503]

the residual matrix:
[6.93999e-05 6.73263e-05 1.67377e-05]
[6.73263e-05 6.53582e-05 1.72806e-05]
[1.67377e-05 1.72806e-05 0.000229351]

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