Course Project 1 (Due: 23:59 Dec 18, 2022)

- Implement one variant of the QR algorithm (nonsymmetric QR, symmetric QR, QR for SVD, etc.). You may also choose to implement QR with AED or the QZ algorithm, if you wish. In any case, please start from a full matrix, instead of a condensed one (Hessenberg, tridiagonal, bidiagonal, etc.).

- Write a report (either in Chinese or in English) for your implementation. The report should contain necessary components such as code structure, detailed algorithm, numerical experiments, etc. *An unnecessarily long report will negatively affect your grade.*

- You are not encouraged to collaborate with others, though discussions are permitted. Helpful inputs from peers should be properly acknowledged in the report.

- Submit necessary supplementary data (programs, test examples, etc.) along with your report.