Solving $Ax = b$ with QR

1分

Given a QR factorization of an $n \times n$ matrix A, try to come up with a process that solves $Ax = b$. Use what we did to solve $Ax = b$ with an LU factorization as inspiration.

What is the computational cost of the cheapest process you can come up with?

Hint: $Q^{-1} = Q^T$ helps with solving $Qx = y$.

选项*

- None of these
- $O(n)$
- $O(n^2)$
- $O(n^3)$

保存回答 提交最终回答