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# 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