Zeros in Backward Substitution

1分

Suppose you encounter a zero on the diagonal of an upper triangular matrix U on which you are using backward substitution to solve $Ux = b$.

What happens?

选项*

- The algorithm takes more steps to complete.
- The algorithm fails to find the correct solution (which exists).
- For most right-hand side vectors b, there is no solution to $Ux = b$.
- The algorithm completes as designed and finds a solution x of $Ux = b$.

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