

[« Previous](#)[下一页 » \(/course/cs357-f15/flow-session/74254/1/\)](#)[结束 »](#)

[1](#) [2](#) [3](#) (/course/cs357-f15/flow-session/74254/1/) (/course/cs357-f15/flow-session/74254/2/)  
[4](#) [5](#) (/course/cs357-f15/flow-session/74254/3/) (/course/cs357-f15/flow-session/74254/4/)  
[6](#) [7](#) (/course/cs357-f15/flow-session/74254/5/)  
(/course/cs357-f15/flow-session/74254/6/)

# Constructing an LU Factorization

1分

Let  $A \in \mathbb{R}^{n \times n}$  be a matrix.

What is the cost (or timing relationship with  $n$ ) of constructing an  $LU$  factorization with partial pivoting.

选项\*

- ☐  $\mathcal{O}(1)$
- ☐  $\mathcal{O}(n)$
- ☐  $\mathcal{O}(n \log n)$
- ☐  $\mathcal{O}(n^2)$
- ☐  $\mathcal{O}(n^3)$
- ☐ None of these

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