**Last-in-first-out Data Structure**

[Report Issue](https://github.com/LeetCode-Feedback/LeetCode-Feedback/issues)

*A diagram of a diagram

AI-generated content may be incorrect.*

In a LIFO data structure, the newest element added to the queue will be processed first.

Different from the queue, the stack is a LIFO data structure. Typically, the insert operation is called push in a stack. Similar to the queue, a new element is always added at the end of the stack. However, the delete operation, pop, will always remove the last element which is opposite from the queue.

*Example - Stack*

1. Push: you can click Push button below to see how a new element 6 is added to the stack.

2. Pop: you can click Pop button below to see which element will be removed when you pop an element from the stack.

A white rectangular object with black text

AI-generated content may be incorrect.    Push                  A screenshot of a cell phone

AI-generated content may be incorrect.    Pop

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*Implementation - Stack*

The implementation of a Stack is easier than a Queue. A dynamic array is sufficient to implement a stack structure. Here we provide a simple implementation for your reference:

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