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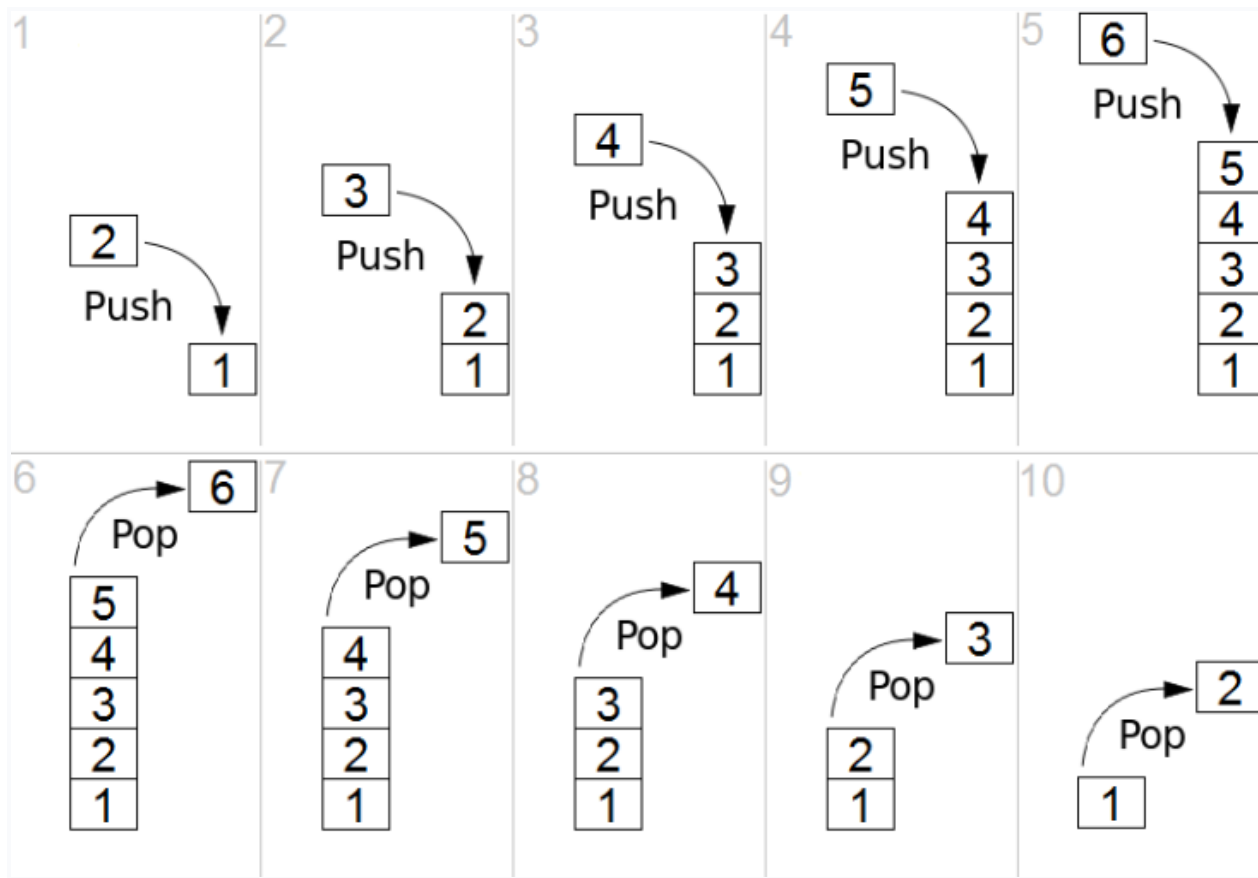
What Is a Stack ?

A Stack Is Abstraction Data Structures Based On LIFO Principle (Last in First Out).

You can think of the stack data structure as Stack of plates.

you can only take a plate from the top of the stack, and you can only add a plate to the top of the stack.





LIFO Principle :

Linked List allows to Insert Or Remove Data Elements At The First Or At The Last Or At Any Position As we See in the previous chapter.

But Stack allows all operations at Only One Side.

LIFO Mean The Stack Has Two Operations:

1. Push : Insert Element At The Top Of Stack.
2. Pop : Remove Current Last Element.

So Last Element Inserted Must Be The First Element To Remove.

What Is Mean By Abstraction Data Structure ?

In General Abstraction Term Mean Define What ,, But Not Defined How .

Abstraction Data Structure is The Data Structure Which Described By Its Behavior Or Operations And Can Be Implemented By Different Data Structures.

Example : Stack Can Be Implemented By Array Or LinkedList. But in Both Cases We Must Apply The LIFO Principle.

So What ?

→ Build Stack Based On LIFO.Principle

How ?

→ Stack Can Implemented By Array Or Linked List.

Stack Using Array