

DSA through C++

Stack_Data_Structure



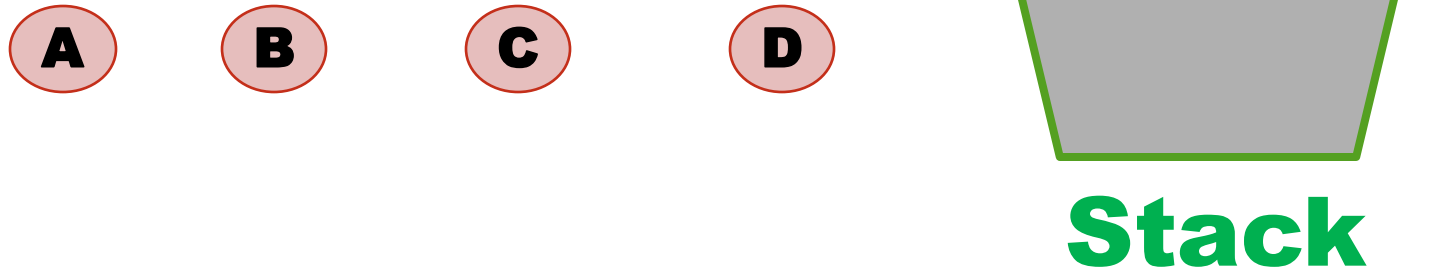
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Agenda

- **What is STACK ?**
- **Operations on STACK**
- **Ways to implement STACK**

What is Stack ?

- **Stack is a linear Data structures**
- **Stack's working principle is Last in First Out (LIFO)**



- **Real world examples of Stack**



- **Programming world examples of Stack**

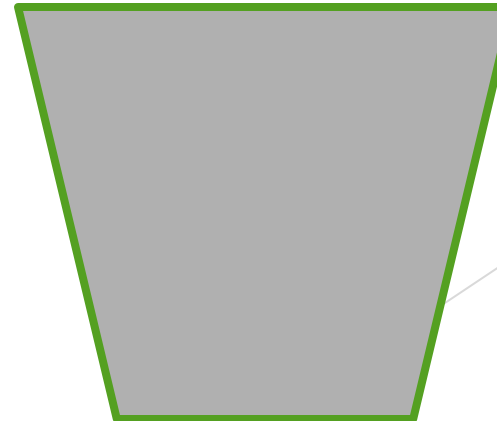
- **Recursion | Function call**

F1()

F2()

F3()

F4()



Operations on stack

- **Insert**
- **Delete**
- **View top element**

Push()

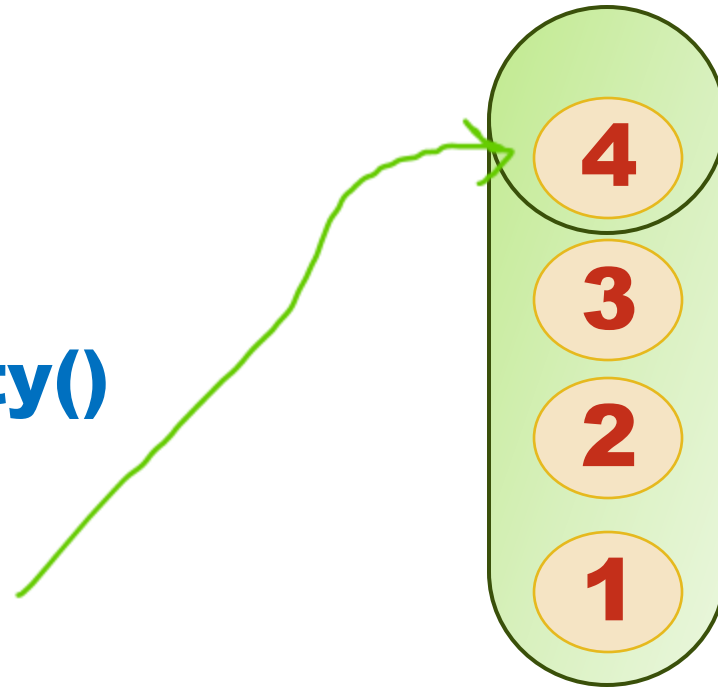
Pop()

Peek()

Size()

isEmpty()

top



Ways to implement Stack

- **Using Arrays**
- **Using Dyn Arrays**
- **Using Linked List**