STACK:-

we will start with Linear - data Structure Specifically STACK-Structure

Def:

The stack is one of the powerful Arrays which uses LIFO last in-first out principle

we can use the stack in reversing problems reverse strings for example and when you call some number of methods, every call will be stored in the stack

The followin figure will show you LIFO stack we can import it from java. util. collections;

every call will be removed First out a Call 5
From the Top Of the stack
untill we make the stack
empty
last in a Call 1

The Stack have some performance properties



Size & Dynamic

Memory: as the array Must be free Consecutive
as Linkedlist not need Consecutive



Access 8 O(n) worst case
Delete: O(1) top but O(n) worst case

Insert: O(1) top but O(n) worst case

Search: O(n)