

Stack

└─ LIFO (Last In - First Out)
FIFO (First In Last Out)

1.

Undo → ctrl + Z

2.

Recursion

→ Recursive Tree

↓
Function call

↳ stored by

Stack Data

Structure

Abstract Data Type :- Push() - inserting new
data in the
stack

Pop() - delete any
data from
the stack

top → to point the topmost element
in the stack

$n = 7$

Push

top = ~~3~~ 4 ~~5~~

5	6
4	5
3	4
2	3
1	2
0	1

Stack

push(x) {

if (top == n-1) {

print("Stack Overflow");

}

else {

top = top + 1;

arr[top] = x; new data

}

Time complexity = O(1)

}

Deletion of any Element

pop() {

if (top == -1) {

print("Stack underflow")

}

Time complexity = O(1)

else {

x = arr[top];

top = top - 1;

return x;

x = 6

peek() / pop()

↓

Prints the topmost element in the stack

↓

Delete the topmost element from the stack.

Implementation

