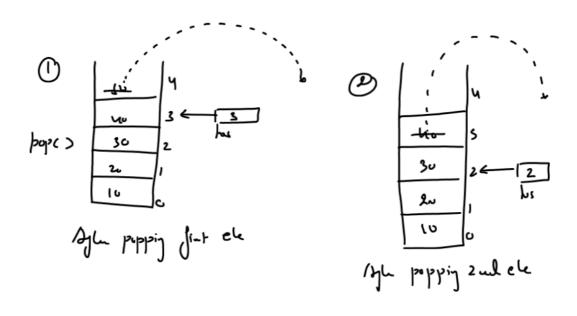
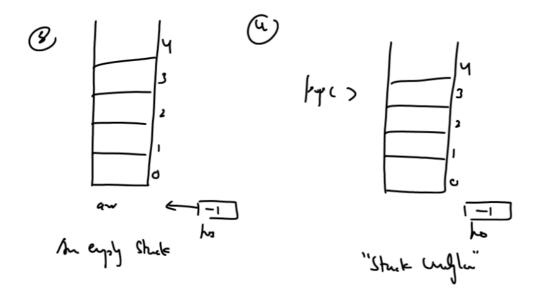


"Strik Overglow"





Writing Algorithm For push()

What is an algorithm?

An algorithm is STEP BY STEP instructions to solve a particular problem

Algorithms are always language independent i.e they do not user any language specific syntax

People also call algorithm as PSEUDOCODE.

Writng Algorithm For The Function push()

- 1. Check for overflow.
- 2. If Stack is full then display STACK OVERFLOW and return otherwise goto step 3.
- 3. Increment TOS by 1.
- 4. Insert the element in the STACK at the position pointed by TOS.
- 5. Return

Writng Algorithm For The Function pop()																																
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

- 1. Check for underflow.
- 2. If Stack is empty then display STACK UNDERFLOW and return otherwise goto step 3.
- 3. Delete the element from the STACK from the position pointed by TOS.
- 4. Decrement TOS by 1.
- 5. Return the deleted element

On Why we have used structure for implementing Stack?

An: Since a Stack is a combination of 2 elements: an array and a tos and both these elements always work together in stack operations so it is a **good programming practice** to declare them together.

Thus we have used a STRCUTURE.