Stacks and Quenes

- 1 What is a Stack?
- A stack is an abstract data type that holds an ordered, linear sequence of items. It follows the Last-In-first-Our principle and allows insertion and deletion operations from one end or the stack data structure that is top.
- 1 Define push, pop, peek, Is empty, size in stacks
- * Push Adds an element to the top of the stack
- * Pop Remove the topmost element from the stack.
- * PREK To look at the object at the top of the stack.

 Without removing it from the stack.
- * Is Empty Checks whether the stack is empty.
- * Size Sets the maximum no: of bytes that the stack is allowed to uso while executing a style-sheet or other compiled content.
- (3) Give 7 examples of stacks found in real life.
 - * A stack of dinner places
 - * Box of buistu bisturts
 - * A pile of folded cloths.
 - * A stack of money
 - * A deck of cards.
 - * A stack of coins
- A pointer called 'Top' is used to keep track of the top element in the stack when initializing the stack, we set it's value to (-1) so that we can check if the stack is empty by comparing TOP ==-1

performed to determine in the stack is empty by comparing top to (-1). As element are added to the stack, the position of top is updated. As soon As elements are popped or deleted, the topmost elements are popped or deleted, the topmost elements are popped or deleted, the topmost elements.

1 What is a Linear seach, Eaplain.

Transfer to the transfer

A Linear search is checking each element on a list in a sequentral manner. It storts with one end one to another

