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Applications of Stack

## Application of Stack Data Structure:

- Stack is used for evaluating expression with operands and operations.
- Matching tags in HTML and XML
- Undo function in any text editor.
- Infix to Postfix conversion.
- Stacks are used for backtracking and parenthesis matching.
- Stacks are used for conversion of one arithmetic notation to another arithmetic notation.
- Stacks are useful for function calls, storing the activation records and deleting them after returning from the function. It is very useful in processing the function calls.
- Stacks help in reversing any set of data or strings.
- To manage recursion, stack data structure is used to account for the previous state of the recursion call.

Application of Stack in real life:

- CD/DVD stand.
- Stack of books in a book shop.
- Undo and Redo mechanism in text editors.
- The history of a web browser is stored in the form of a stack.
- Call logs, E-mails, and Google photos in any gallery are also stored in form of a stack.
- YouTube downloads and Notifications are also shown in LIFO format(the latest appears first).

Advantages of Stack:

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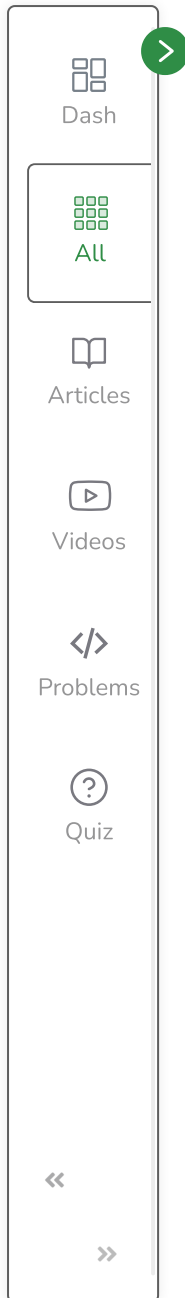
- Stack helps in managing data that follows the LIFO technique.
- Stacks are being used for systematic Memory Management.
- It is used in many virtual machines like JVM.
- When a function is called, the local variables and other function parameters are stored in the stack and automatically destroyed once returned from the function. Hence, efficient function management.
- Stacks are more secure and reliable as they do not get corrupted easily.
- Stack allows control over memory allocation and deallocation.
- Stack cleans up the objects automatically.
- Stacks are used to convert

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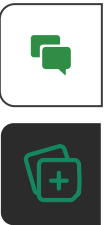
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