

More on Stack

Diagram illustrating stack operations:

- A horizontal array representing the stack: 

7	11	22			
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  - Indices below the array: 0, 1, 2
  - Handwritten label `top` with an arrow pointing to index 2.
- A vertical stack representation:
  - Elements: 22, 11, 7
  - Handwritten label `top` with an arrow pointing to the top element (22).
- Handwritten code snippets:
  - `stackBottom -> sp->arr[0];`
  - `StackTop` with a downward arrow pointing to `return sp->arr[sp->top];`

Time Complexity of StackBottom =  $O(1)$

Time Complexity of StackTop =  $O(1)$

Time Complexity of isEmpty =  $O(1)$

Time Complexity of isFull =  $O(1)$

Time Complexity of push =  $O(1)$

Time Complexity of pop =  $O(1)$

Time Complexity of peek =  $O(1)$