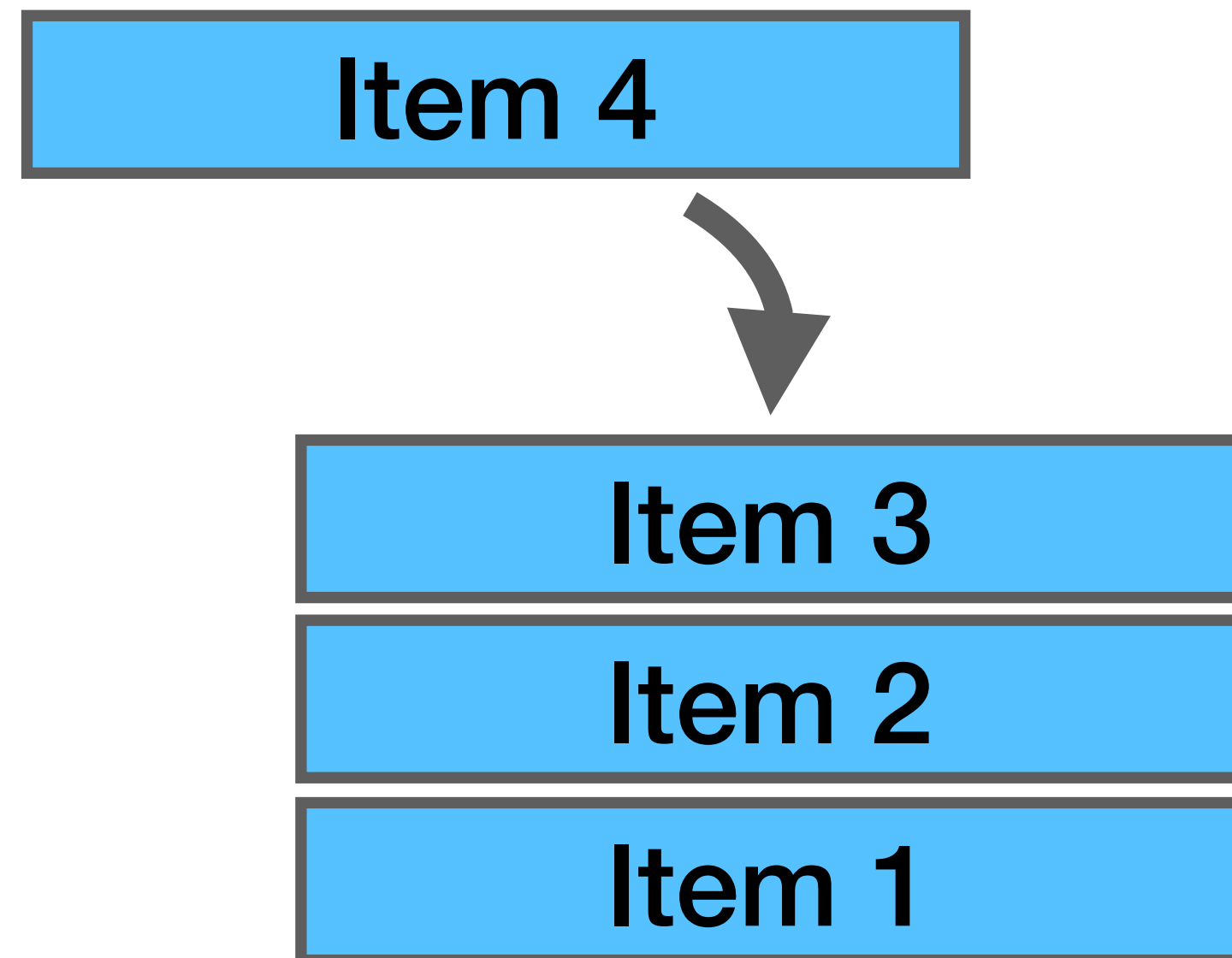


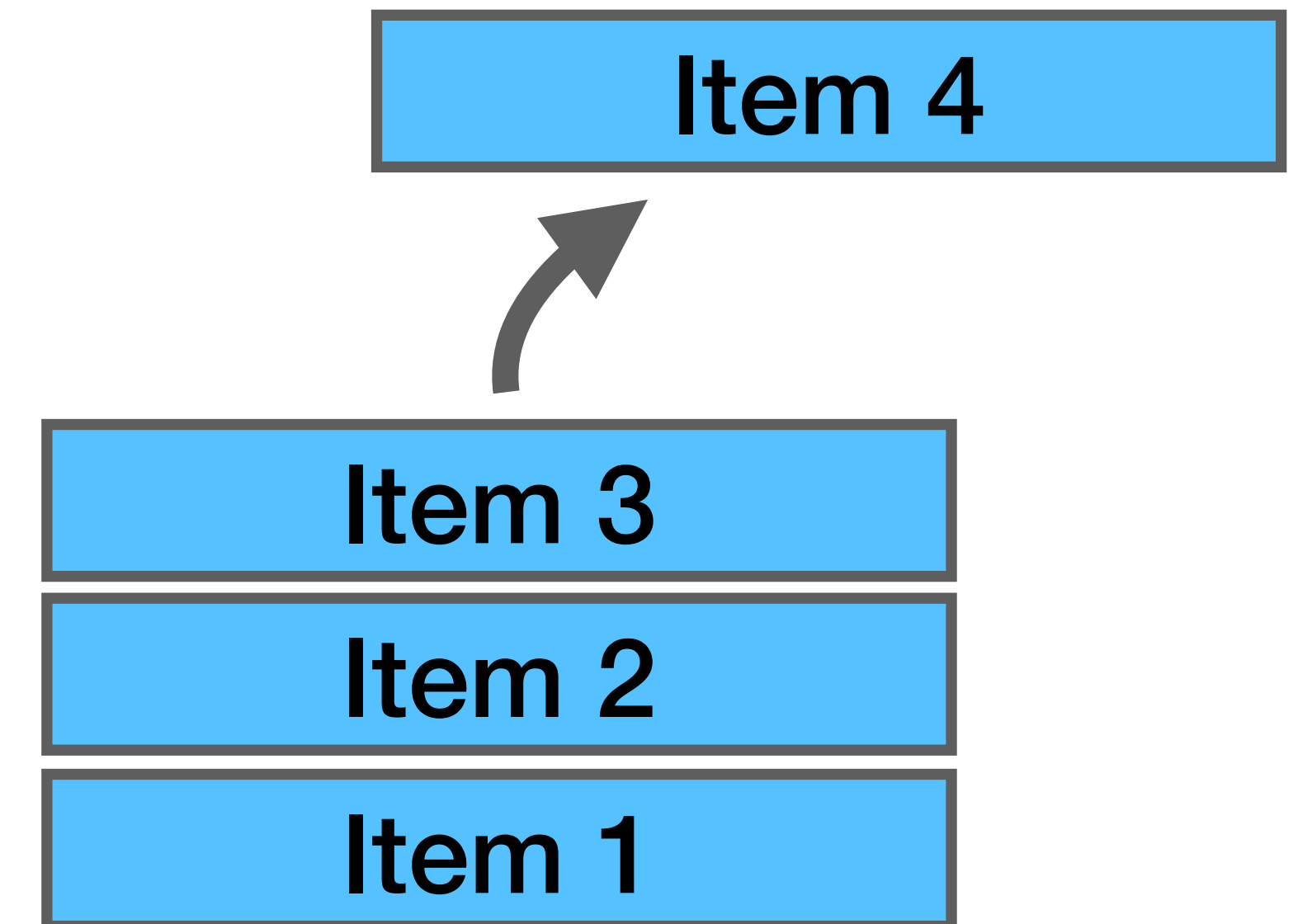
Stacks and Queues

Stacks

Push an item onto the stack



Pop an item off of the stack

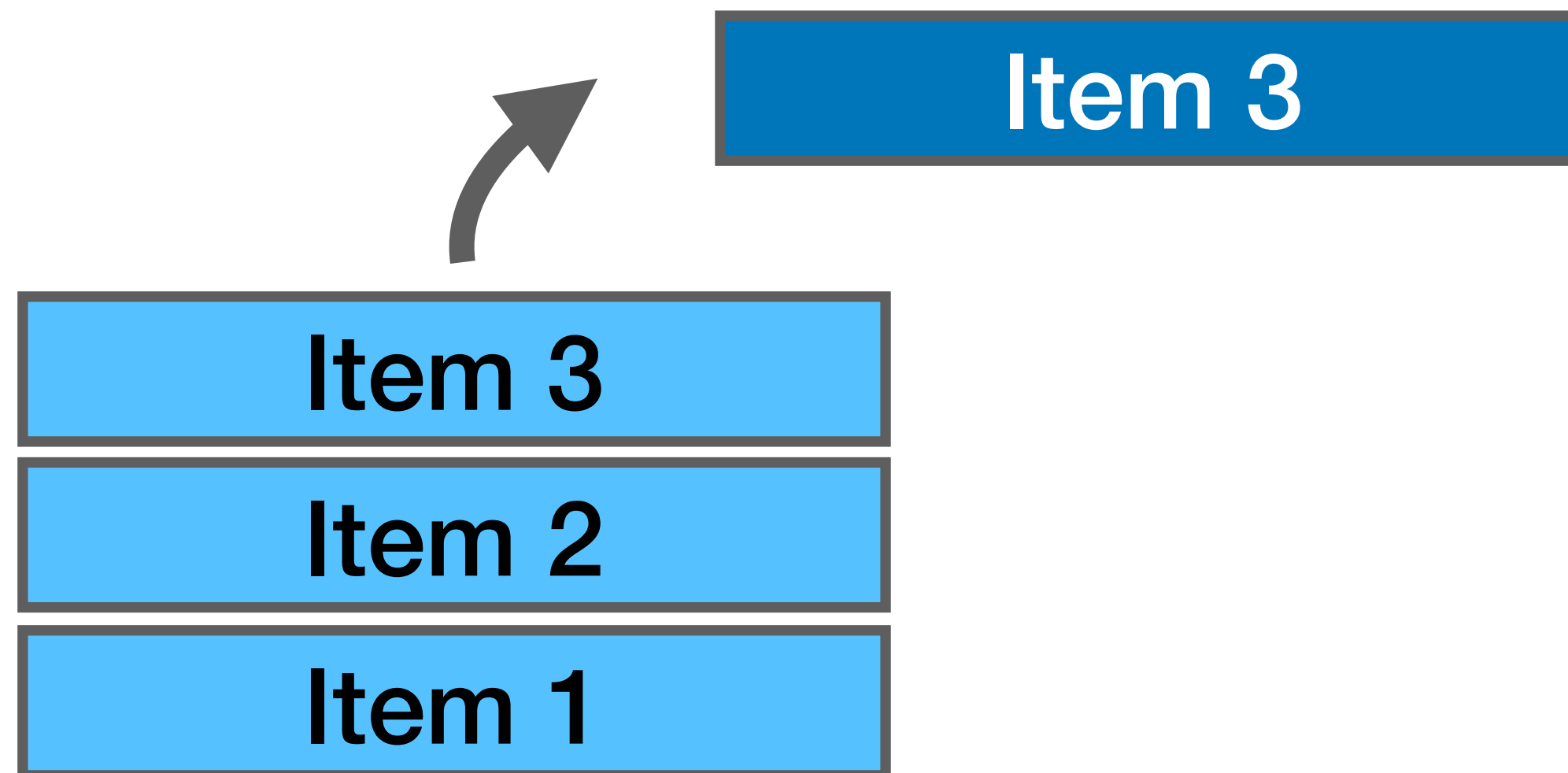


LIFO: Last-In First-Out

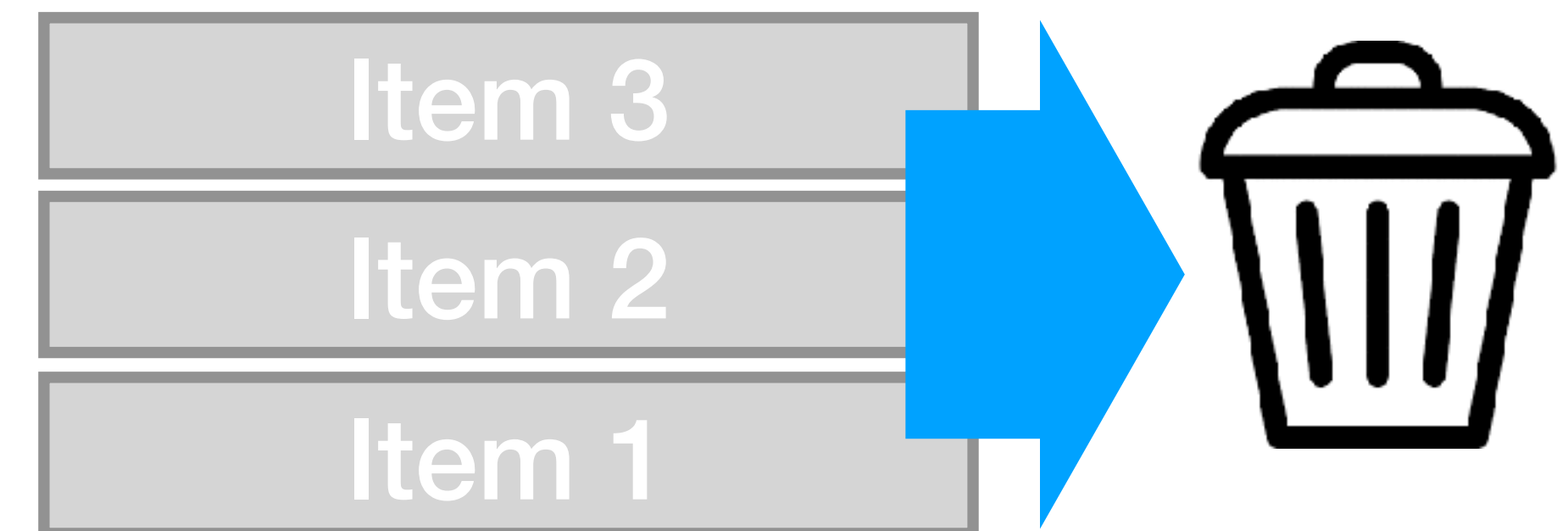
All **push** and **pop** operations are to/from the **top** of the stack.

Stacks

Peek - get item on top of stack, without removing it.



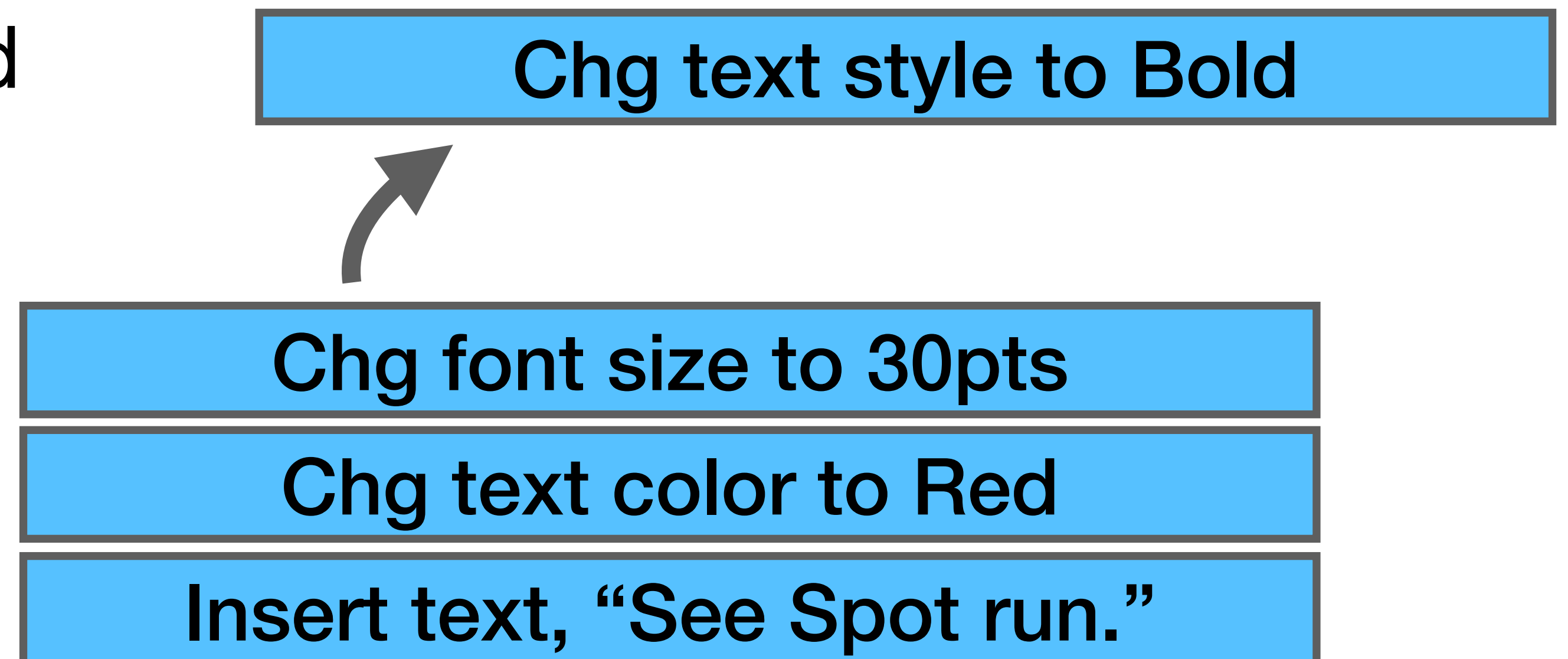
Clear all items from stack



Stacks Use Case

Undo - track which commands have been executed.
Pop last command off command stack to undo it.

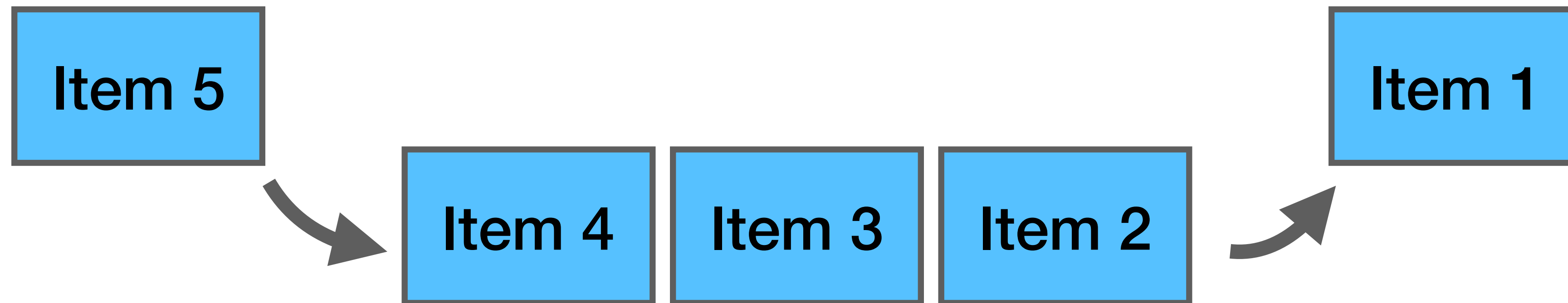
Pop last command
to undo bold.



Queues

Enqueue - add an item to the end of the line.

Dequeue - remove an item from the front of the line.



FIFO: First-In First-Out

Enqueue on one end, and Dequeue from the other end.

Queues Use Cases

Queues are good for modeling anything you wait in line for.

Bank tellers. Placing an order at McDonalds.

DMV customer service. Supermarket checkout.