

CS 2050

Computer Science II

Lesson 05



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LIVES TRANSFORMED

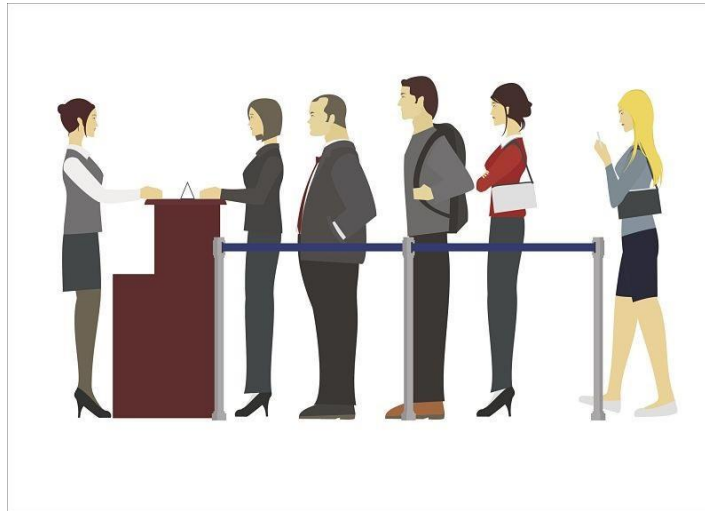
Agenda

- Lists Operating Models:
 - Stacks
 - Queues



List Operating Models

- Queues:
 - First element to enter the list is also the first one to leave it

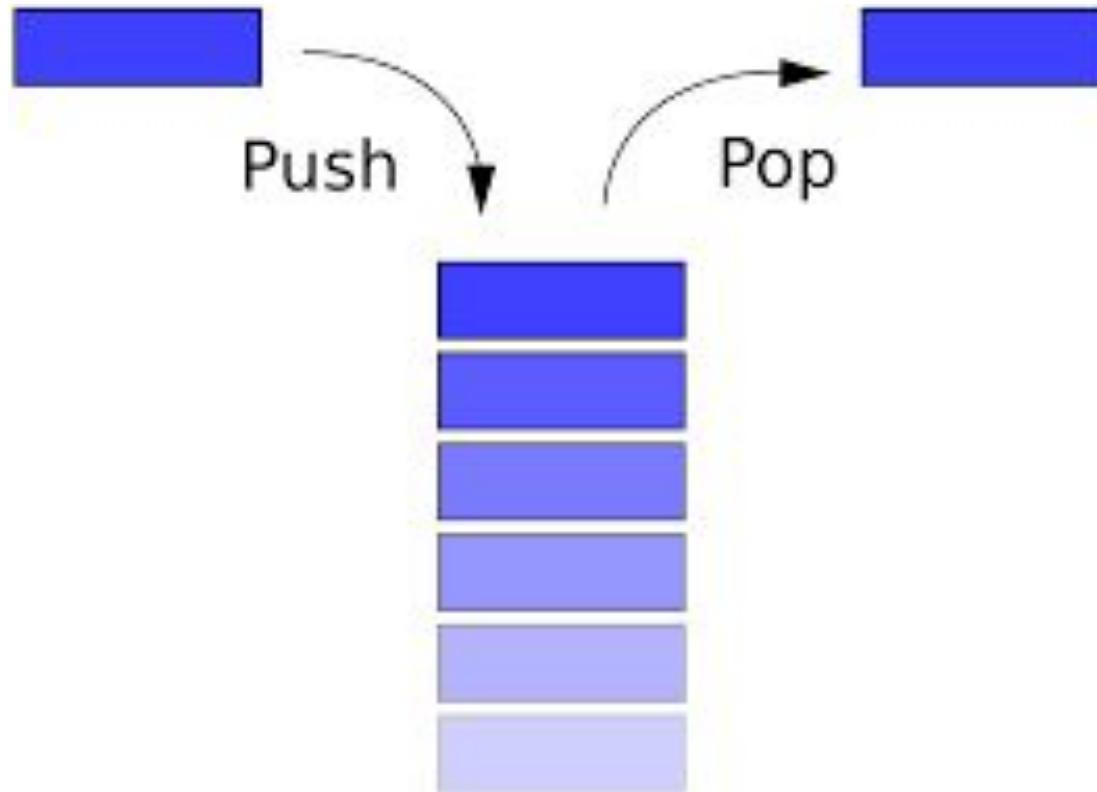


List Operating Models

- Stacks:
 - First element to enter the list is the last one to leave it



Stack Operations



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Stack Implementations

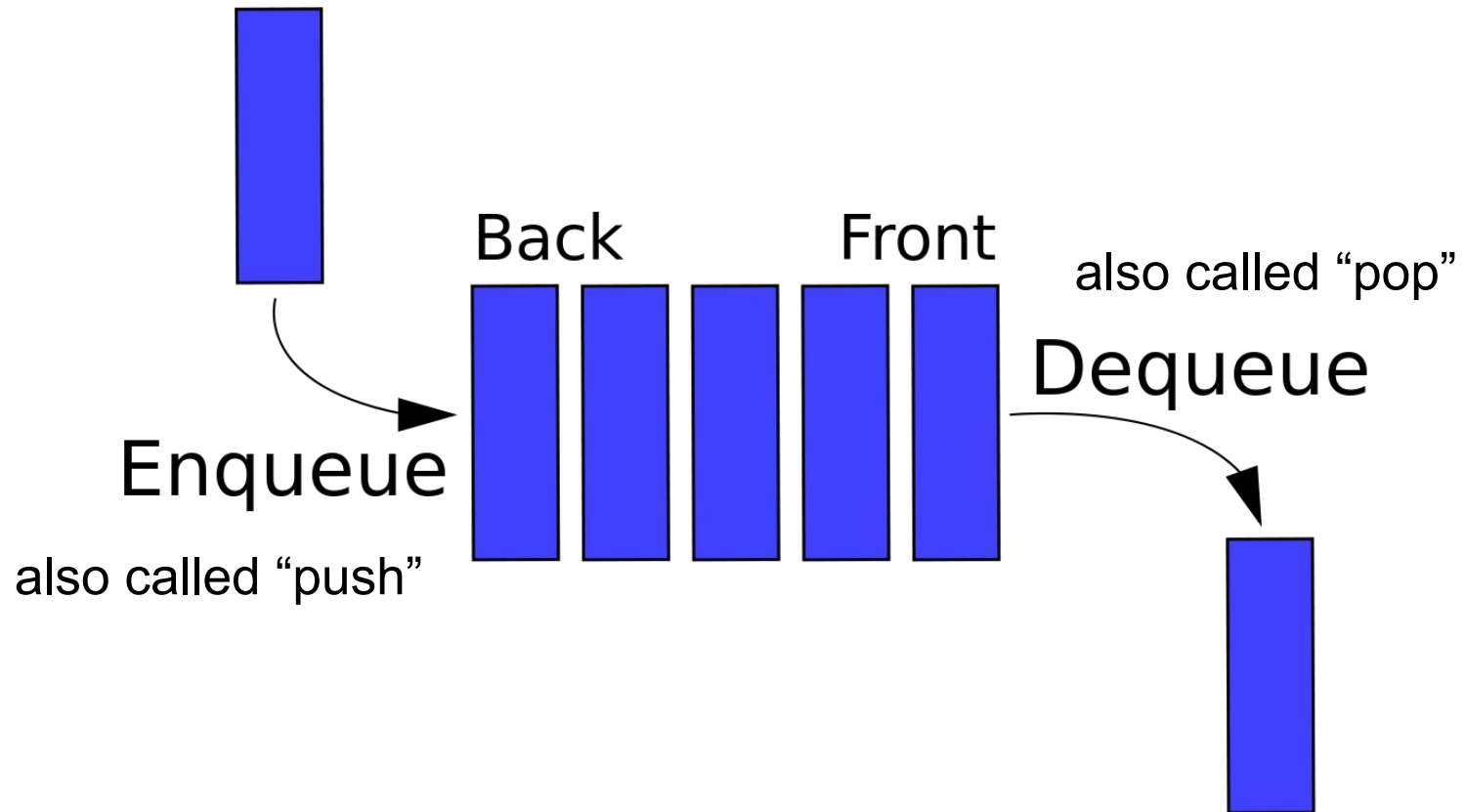
- Static Stack:
 - Backed by an array
 - Limited capacity
- Dynamic Stack:
 - Backed by a linked list

Check implementations at:

https://github.com/thyagomota/20SCS2050/tree/master/activity_09_stack/src



Queue Operations



Queue Implementations

- Static Queue:
 - Backed by an array
 - Limited capacity
- Dynamic Queue:
 - Backed by a linked list

Check implementations at:

https://github.com/thyagomota/20SCS2050/tree/master/activity_11_queue/src

