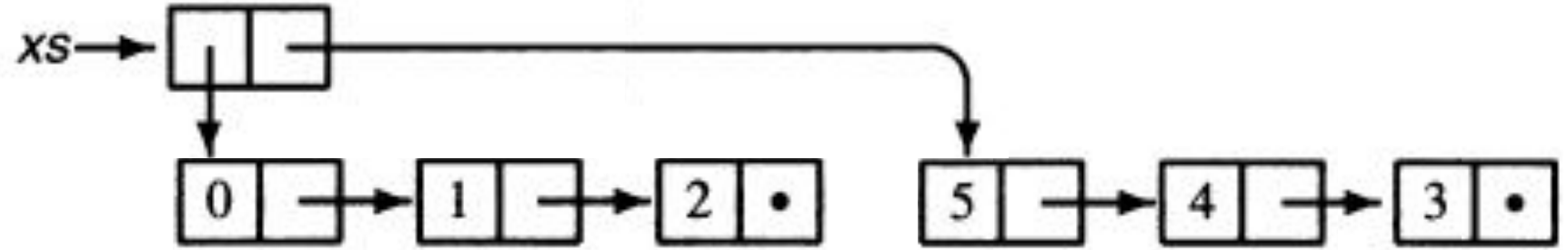





Example: Amortized Queues



enqueue(): Push onto 'do' stack



'current' queue

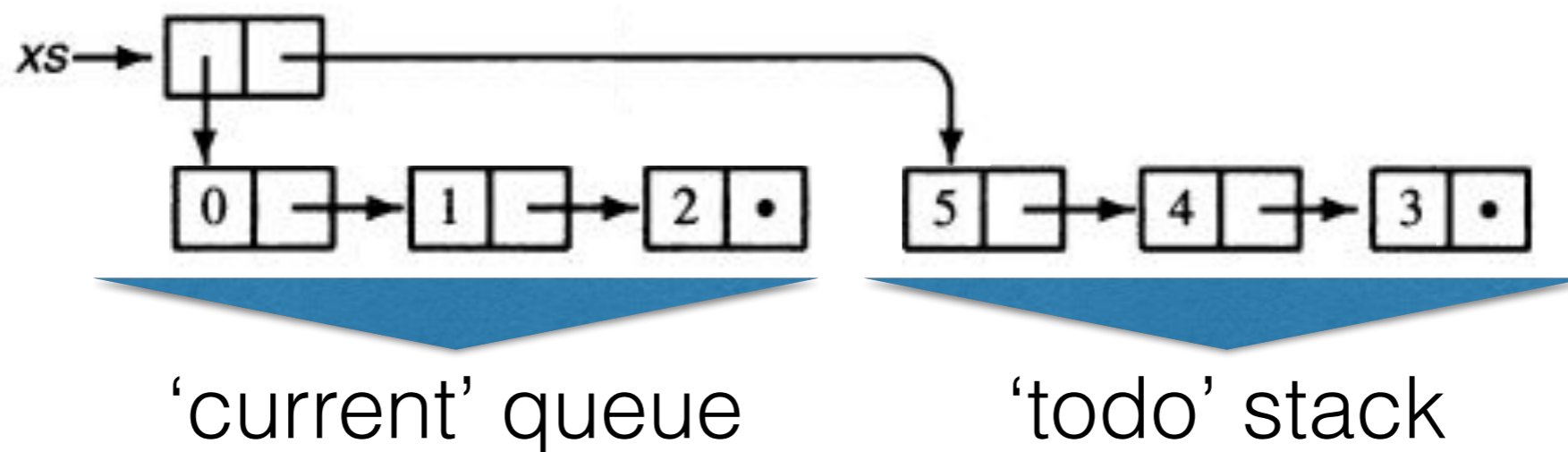


'todo' stack

dequeue () : Pop 'current' queue
if empty, reverse 'todo' stack to make new 'current' queue

What are the costs?

Example: Amortized Queues



`enqueue ()`: Push onto 'todo' stack

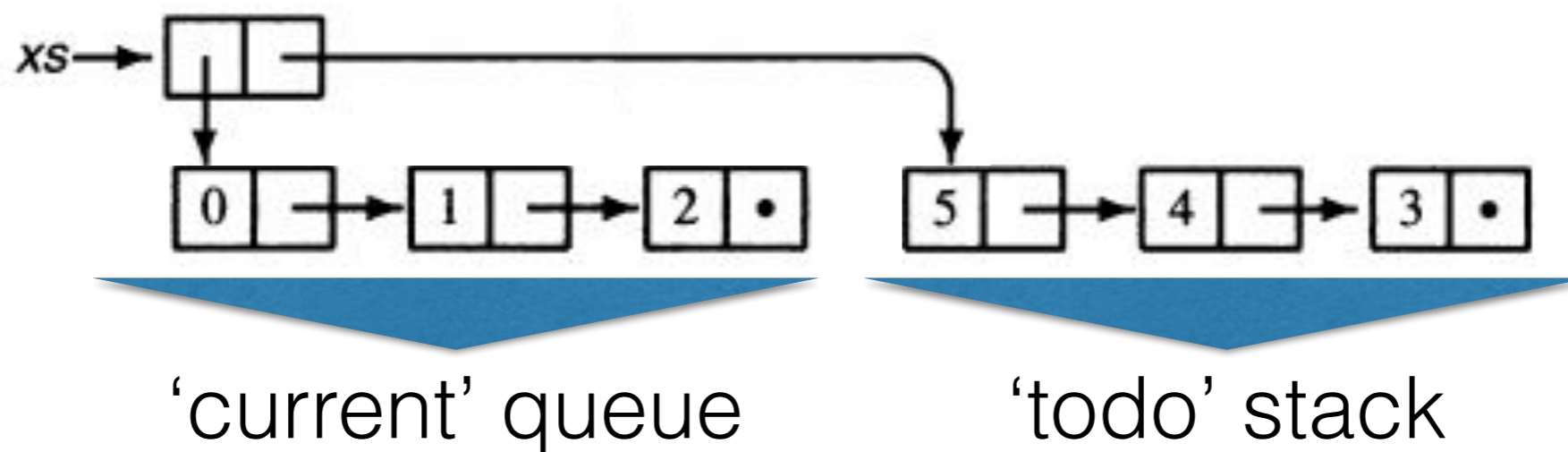
What is the cost?

`dequeue ()`: Pop 'current' queue

if empty, reverse 'todo' stack to make new 'current' queue

What is the cost?

Example: Amortized Queues



enqueue (): Push onto 'todo' stack

push() is $O(1) + 1$ credit

dequeue (): Pop 'current' queue

if empty, reverse 'todo' stack to make new 'current' queue

Pop is $O(1)$; Reverse uses N credits for $O(1)$ amortized