Clicker Qs about Stacks and Queues
Q1: Suppose we start with an empty stack and do the following operations:
   push(1)
   push(2)
   pop()
   push(3)
   push(4)
   pop()
   pop()
   pop()
What will be on the top of the stack?
A. 1  
B. 2  
C. 3  
D. 4
Answer A: 1
Q2: Suppose we start with an empty queue and do the following operations:

- enqueue(1)
- enqueue(2)
- dequeue()
- enqueue(3)
- enqueue(4)
- dequeue()
- dequeue()
- dequeue()

What will be at the rear of the queue?

A. 2
B. 3
C. 4
D. This is a trick question; we can only see the front of the queue
Answer D: We can only see the front of the queue,
Q3: Suppose we start with an empty queue and do the following operations:

enqueue(1)
enqueue(2)
dequeue()
enqueue(3)
enqueue(3)
enqueue(4)
dequeue()
dequeue()
dequeue()

What will be at the front of the queue?

A. 1
B. 2
C. 3
D. 4
Answer D: 4
Which is correct?

A. Stacks use a First In – First Out protocol; Queues use a Last In – Last Out protocol

B. Stacks use a First In – Last Out protocol; Queues use a Last In – First Out protocol

C. Stacks use a Last In – First Out protocol; Queues use a Last In – Last Out protocol

D. Stacks use a Last In – Last Out protocol; Queues use a First In – Last Out protocol
Answer C:
Stacks are Last In – First Out (which is the same as First In – Last Out).
Queues are Last In – Last Out (which is the same as First In – First Out)