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Homework 2

2. (6,4) -> (6,3) -> (6,5) -> (7,5) -> (8,5) -> (8,6) -> (8,7) -> (8,8) -> (7,8) -> (6,6) -> (5,4) -> (4,4)

4. (6,4) -> (5,4) -> (6,5) -> (6,3) -> (4,4) -> (6,6) -> (7,5) -> (3,4) -> (4,5) -> (8,5) -> (2,4) -> (4,6)

The stack data structure uses a first in, last out approach. Thus, the first item that is pushed into a stack in the last one that will be popped. The queue data structure uses a first in, first out approach. Thus, the first item that is pushed on the queue is that first one that will be popped. Thus, the way old elements are stored is different between stacks and queues, which affects the order in which the elements are popped.