Seth Wilson  
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Assignment #4

1. They’ll be dequeued in **First-In First-Out (FIFO) order**, so the output will be A E I O U
2. queue1: 30  
   queue2: 10, 20  
   x = 50  
   y = 40  
   z = 60
3. An array-based implementation of a queue suffers from rightward drift because, as you repeatedly enqueuer and dequeuer items, the indices of the items gradually increase, or drift rightwards. For example, if you enqueuer “apple”, “banana”, and “coffee”, they occupy indices 0 through 2. But if you dequeuer “apple” and enqueuer “doughnut”, the queue’s indices are now 1 through 3. You can shift, but this becomes the dominant processing cost.  
     
   A reference-based implementation doesn’t have this problem because there are no fixed indices or memory allocations for the queue to live in. The queue isn’t of fixed maximum size, so drive is irrelevant.