1.
   Initial stack is:
   H G F E D C B A

   Final stack is:
   E C B A

   The queue is:
   E D D C

2. Reverses the queue and doubles each value
3.
   Queue elem. = 0
   Queue elem. = 14
   Queue elem. = 22
   Queue is empty!
   Queue is empty!
   Stack elem. = 32
   Stack elements: 64 28 0
   Queue elements: 30