headPtr

H → E → L → L → O

tailPtr

newPtr

currentPtr

newPtr -> data

newPtr -> nextPtr

Algorithm enqueue
Step 1: Allocate new memory block by malloc( )
Step 2: Mark beginning of this block by newPtr
Step 3: Assign newPtr to tailPtr **->** nextPtr
Step 4: Assign value to newPtr **->** data
Step 5: Put '\0' in newPtr **->** nextPtr
Step 6: Assign newPtr to tailPtr

Algorithm dequeue
Step 1: Assign tempPtr **=** headPtr
Step 2: Assign headPtr **=** headPtr -> nextPtr
Step 3: Assign value **=** headPtr -> data
Step 4: Free tempPtr
Step 5: Return value to main( )

Algorithm Printqueue
Step 1: Check if queue is empty
Step 2: Assign currentPtr **=** headPtr
Step 3: while currentPtr **!=** NULL
          print currentPtr **->** data
          Assign currentPtr **=** currentPtr **->** nextPtr