D5. The listPatients() Method

START

    Declare qChoice and x as integers
    Declare go as an integer equal to 1
    Declare string outputS to "The members of the queue are: "
    While (user wishes to continue) do the following:
    Prompt for and accept qChoice
    Validate qChoice - it must be in the range 1 to MAX;
    If(openFlag[qChoice-1] is True)
    Declare a new clinicPatient array equal to the length of queue of choice
    Call toArray for that queue
    for(x to length of array incrementing by 1 do the following)
    Add patientsArray[x -1] to outputS
    Output patients list
    Ask the user if they would like to continue
    End of validation
    End of while

STOP

D8. The emptyQueue() Method

START

    Declare qChoice, x and go as integers
    While (user wishes to continue) do the following
    Prompt for and accept qChoice
    Validate qChoice - it must be in the range 1 to MAX
    If(openFlag[qChoice-1] is True)
    for(x to theClinic length incrementing by 1) do the following
    Destroy queue at position x in theClinic

STOP

D9. The closeQueue() Method

START

    Declare qChoice, x, targetQ, and go as integers
    while(the user wishes to continue) do the following:
    Accept qChoice input
    Validate qChoice - it must be in the range 1 to MAX
    if(openFlag[qChoice - 1] is True)
    while(theClinic[qChoice-1].nFront != null) do the following
    targetQ = findSmallestQ(theClinic, qChoice)
    theClinic[targetQ-1].addRear(theClinic[qChoice-1].nFront.nInfor)
    theClinic[qChoice-1].removeFront()
    theClinic[qChoice-1].destroyMe(qChoice-1)
    End while
    Output success message

End if

Else output error message because queue is closed

Ask the user if they wish to continue

End validation

End while

STOP