

# HOSPITAL EMERGENCY QUEUE SYSTEM:

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write a c++ code  
which involves  
1.insert at end  
2. insert at start  
3.insert at any posiion  
4.delete at beginning

## PROPOSED SOLUTIONS

**data structure:**

**doubly linked list with queues**

**node sturcture:**

**id , next , prev**

**operations:**

**inser , delete**

**edge case handling:**

**if empty etc**

**display function**

if ambulance:

nullptr<-101->nullptr

nullptr<-101->102->nullprt

nullptr<-200->101->102->nulptr

nullptr<-200->150->101->102->nullprt

nullptr<-150->101->102->nullptr

nullptr<-150 ->101->102->300->nullptr

if no ambulance:

nullptr<-101->nullptr

nullptr<-101->102->nullptr  
skipped

nullptr<-101->150->102->nullptr

nullptr<-150->102->nullptr

nullptr<-150->102->300->nullptr