package OCLDiagrams [🖧 OCLCheckOutLane]
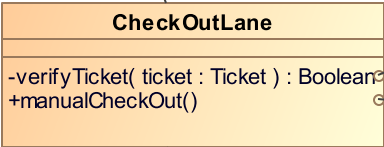
{context CheckOutLane::ticketRead(ticket)
post:
      if verifyTicket(ticket)
      then
       barrier^openBarrier() and checkOutAdded(passes@pre, passes)
      else
       station^notifyCashier()
      endif
      def: checkOutAdded(c1,c2 : Sequence(Check-Out)) =
          c2->includesAll(c1) and c2->size() = c1->size()+1}

{query}

CheckOutLane

-verifyTicket(ticket : Ticket) : Boolean
+manualCheckOut()

{post:
  passes->size() = passes@pre->size() + 1 and
passes->includesAll(passes@pre)

}

{context CheckOutLane::tagArrive(tagId)
post:
 if passes->size() = passes@pre->size() + 1
 then
      passes->includesAll(passes@pre)
 else
      station^notifyCashier()
 endif
 and station^checkOut(? : TagCheckOut)
}