

```
#ifndef __ARQ2_SOURCE_H_
#define __ARQ2_SOURCE_H_

#include <omnetpp.h>

using namespace omnetpp;

class Source : public cSimpleModule
{
   private:
       simtime_t timeout;
       cMessage *timeoutEvent;
       cPacket *pkt;
       int counter;

public:
```

```
Source::Source(){
     timeoutEvent = nullptr;
 }
void Source::initialize()
 {
    counter = par("num_messages");
    timeout = 1.0:
    timeoutEvent = new cMessage("timeoutEvent");
    EV<<"Sending initial packet";
    pkt= new cPacket("packet");
    pkt -> setBitLength(100);
    cPacket *pkt_copy = pkt -> dup();
    send(pkt_copy, "out");
    scheduleAt(simTime()+timeout, timeoutEvent);
 }
simple Source
{
     parameters:
          @display("i=block/source");
          int num_messages = 100;
     gates:
          input in;
          output out;
}
```