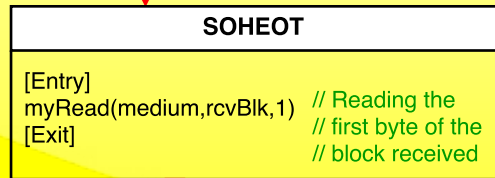


Receiver_TopLevel

```
[Entry]
goodBlk = false;
goodBlk1st = false;
numLastGoodBlk = 0;
errCnt = 0;
sendByte(NCGbyte);
[Exit]
```

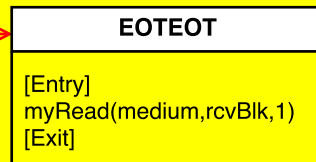
```
[errCnt <= errB]
/!(goodBlk){
  sendByte(ACK);
  if(goodBlk1st){
    errCnt=0;
    writeChunk();
  } else { errCnt++;}
} else { // !goodBlk
  sendByte(NAK);errCnt++;}
```



```
onEvent(SER)
[rcvBlk[0] == SOH]
/getRestBlk(); // If the block received
               // is not in good condition, getRestBlk() will
               // set goodBlk and goodBlk1st to the appropriate
               // value. Note that getRestBlk() will also set errCnt to
               // a value greater than errB to trigger can8() function
               // when a block number beuond the tolerance is received
```

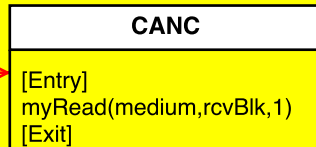
TRAN

```
onEvent(SER)
[rcvBlk[0] == EOT]
/sendByte(NAK);
```



```
onEvent(SER)
[rcvBlk[0] == EOT]
/sendByte(ACK);
ctx.result="Done";
```

```
onEvent(SER)
[rcvBlk[0] == CAN]
/sendByte(NAK);
```



```
onEvent(SER)
[rcvBlk[0] == CAN]
/ctx.result="SndCancelled";
```

```
[errCnt > errB]
/can8();
ctx.result="RcvCancelled";
```

```
onEvent(SER)
/cerr << "Receiver received totally unexpected char #" << rcvBlk[0] << ": " <<(char) rcvBlk[0] << endl;
exit(EXIT_FAILURE);
```

Note

```
//% Student Name 1: Yu Xuan (Shawn) Wang
//% Student 1 #: 301227972
//% Student 1 userid (email): yxwang (stu1@sfu.ca)
//
//% Student Name 2: Sheung Yau Chung
//% Student 2 #: 301236546
//% Student 2 userid (email): sychung (stu2@sfu.ca)
//% Helpers: Dr Scratchley and All TAs
```