

Incoming	
2	Packet

**Received Packet Table**

0	true
1	true
2	false
3	true
4	false
...	...

When a packet is received, set its entry in the received packets array to true.

**Download File**

When download starts, initialize download file to an empty file of the same size as the target file.

Use RandomAccessFile to write each packet to the appropriate location in whatever order they are received.

packet0	packet0	packet
0	packet1	packet1
packet1	.....	packet3
packet3	packet3	.....
.....	packet5	packet5
packet5		

**Packet Structure**

0	Index
1	
2	Data
3	
4	
5	
6	
...	
1023	