Monitor M {

bufferType satisfyCondition <- empty;

condition notEmpty;

condition checkCondition;

operation void append (dataType V) {

**while** (v **not** **Satisfy** condition) {

**waitC** (checkCondition);

}

satisfyCondition **<-** end of satisfyCondition;

**signalC** (notEmpty)

}

operation void append\_I() {

**while** (true) {

**if** satisfyCondition **is not** empty: **waitC** (notEmpty);

I.append **<-** the head of satisfyCondition and remove;

}

}

operation dataType take () {

V **<-** I.take();

**signalC** (checkCondition);

**return** V;

}

}