

```
EXTENDS Integers, Sequences
```

```

Put(s) == Append(s, "widget")
Get(s) == Tail(s)
```

```

a(+)b == (a+b)%2
```

```

(*****
```

```
--algorithm Handshake{
```

```

    variable p=0, c=0, box=<>;
```

```

    process(Producer=0)
    {
        p1: while(TRUE)
        {
            await p=c;
            box:=Put(box);
            p:=p(+)-1
        }
    }
}
```

```

    process(Consumer=1)
    {
        c1: while(TRUE)
        {
            await p#c;
            box:=Get(box);
            c:=c(+)-1
        }
    }
}
```

```

*****
```