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EXTENDS Integers, Sequences
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Put(s) \triangleq Append(s, "widget")
Get(s) \stackrel{\Delta}{=} Tail(s)
a \oplus b \stackrel{\triangle}{=} (a+b) \% 2
--algorithm Handshake{
    variable p = 0, c = 0, box = \langle \rangle;
    process ( Producer = 0 )
       \{ p1: \mathbf{while} \ ( \mathtt{TRUE} ) \}
                 { await p = c;
                    box := Put(box);
                   p := p \oplus 1
        }
    process ( Consumer = 1 )
       { c1: while (TRUE)
                 { await p \neq c;
                   box := Get(box);
                   c := c \oplus 1
```