Further Modula-3

A Modula-3 library module is required to provide a buffered stream of characters between two threads, with appropriate synchronization.

Write a Buffer interface defining an opaque object type, T, with the following methods:

- **init**: taking an argument specifying the buffer size and returning a suitably initialized object
- **put**: inserting a single character into the buffer
- **get**: extracting a single character from the buffer

Sketch a corresponding implementation giving

(a) the concrete revelation of the types

(b) the three default methods

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