## Synchronisation

- We are trying to synchronise our processes in order to safeguard the integrity of shared data.
- Classic synchronisation problem is that of Producer-Consumer
  - Producer process creates items of data and puts them in a buffer
  - Consumer process processes the items of data produced by the producer
  - The buffer can be bounded or unbounded

## Semaphores

- Semaphores are a tool for handling the exclusion problem
- A semaphore has:
  - A data item
  - Two indivisable operations
    - P(S) for waiting for the semaphore
    - V(S) for releasing the semaphore