

# Process Synchronization

## Producer-Consumer Problem

- ▶ Consumers don't try to remove objects from Buffer when it is empty.
- ▶ Producers don't try to add objects to the Buffer when it is full.

```
1 while(TRUE){  
2     while(FULL);  
3     item = produceItem();  
4     insertItem(item);  
5 }
```

```
1 while(TRUE){  
2     while(EMPTY);  
3     item = removeItem();  
4     consumeItem(item);  
5 }
```

How to define **full/empty**?