

```
Monitor PC;
int nextin, nextout, count;
char buffer[n];
condition notfull, notempty;
append(char x)
{
    if (count == n) Cwait(notfull);
    buffer(nextin) = x;
    nextin = (nextin + 1) % n;
    count++;
    Csignal(notempty);
}
take(char x)
{
    if (count == 0) Cwait(notempty);
    x = buffer(nextout);
    nextout = (nextout + 1) % n;
    count--;
    Csignal(notfull);
}
{
    count = 0;      nextin = 0;      nextout = 0;
```

```
}
```

生产者、消费者的描述如下:

```
main()
{
    cobegin
        producer() ;
        consumer();
    coend
}
producer()
{
    char x;
    while(ture)
    {
        produce(x);
        append(x);
    }
}
void consumer()
{
    char x;
```

```
while(ture)
{
    take(x);
    consume(x);
}
```