```
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);
}
}
```