链式队列基本操作的 C++代码

链式队列

链式队列 LQueue 类的实现

```
// 向队尾插入元素 item
template< class T >
void LQueue<T>::QInsert ( const T& item ) {
      if ( IsEmpty ( ) ) { front = rear = new SLNode<T> ( item , NULL ) ; count = 1 ; }
      else
            { rear→next = new SLNode <T> ( item, NULL ) ;
            rear = rear→next ; count + + ;
            }
}

// 删除队首元素
template< class T >
bool LQueue<T>::QDelete ( T & item ) {
      if ( IsEmpty( ) ) { cout <<“Deleting from an empty queue!”<<endl; return false; }
      SLNode<T> *temp = front ;
      item = temp→data ;
      front = front→next ; count - - ;
      delete temp ;
      if ( count = = 0 ) rear = NULL ;
      return true ;
}
// 存取队首元素值
template< class T >
bool LQueue<T>::QFront ( T & item ) {
      if ( IsEmpty( ) ) { cout <<“Reading from an empty queue!”<<endl; return false; }
      item = front→data ; return true ;
}

// 清空队列
template< class T >
void LQueue<T>::QClear ( ) {
      while ( ! IsEmpty ( ) )
      { rear = front ;
      front = front→next ;
      delete rear ; count - - ;
      }
      rear = NULL ;
}
```