```
50      public boolean add( AnyType x )
51      {
52          add( size( ), x );
53          return true;
54      }
55
56      public void add( int idx, AnyType x )
57      {
58          if( theItems.length == size( ) )
59              ensureCapacity( size( ) * 2 + 1 );
60          for( int i = theSize; i > idx; i-- )
61              theItems[ i ] = theItems[ i - 1 ];
62          theItems[ idx ] = x;
63
64          theSize++;
65      }
66
67      public AnyType remove( int idx )
68      {
69          AnyType removedItem = theItems[ idx ];
70          for( int i = idx; i < size( ) - 1; i++ )
71              theItems[ i ] = theItems[ i + 1 ];
72
73          theSize--;
74          return removedItem;
75      }
76
77      public java.util.Iterator<AnyType> iterator( )
78        { return new ArrayListIterator( ); }
79
80      private class ArrayListIterator implements java.util.Iterator<AnyType>
81      {
82          private int current = 0;
83
84          public boolean hasNext( )
85            { return current < size( ); }
86
87          public AnyType next( )
88          {
89              if( !hasNext( ) )
90                  throw new java.util.NoSuchElementException( );
91              return theItems[ current++ ];
92          }
93
94          public void remove( )
95            { MyArrayList.this.remove( --current ); }
96      }
97  }
```

图 3-16 MyArrayList 类(第二部分，共两部分)