```
public class MyArrayList<AnyType> implements Iterable<AnyType>
 2
 3
         private static final int DEFAULT CAPACITY = 10;
 4
 5
         private int theSize;
         private AnyType [ ] theItems;
 7
 8
         public MyArrayList( )
 9
           { clear( ); }
10
         public void clear()
11
12
13
             theSize = 0;
14
             ensureCapacity( DEFAULT_CAPACITY );
         }
15
16
17
         public int size()
18
           { return theSize; }
         public boolean isEmpty( )
19
20
           { return size( ) == 0; }
21
         public void trimToSize( )
22
           { ensureCapacity( size( ) ); }
23
         public AnyType get( int idx )
24
25
             if( idx < 0 || idx >= size())
26
27
                 throw new ArrayIndexOutOfBoundsException();
28
             return theItems[ idx ];
29
         }
30
31
         public AnyType set( int idx, AnyType newVal )
32
         {
33
             if( idx < 0 || idx >= size( ) )
34
                 throw new ArrayIndexOutOfBoundsException( );
35
             AnyType old = theItems[ idx ];
36
             theItems[ idx ] = newVal;
37
             return old;
38
         }
39
         public void ensureCapacity( int newCapacity )
40
41
42
             if( newCapacity < theSize )</pre>
43
                 return;
44
45
             AnyType [ ] old = theItems;
             theItems = (AnyType []) new Object[ newCapacity ];
46
             for( int i = 0; i < size( ); i++ )
48
                 theItems[ i ] = old[ i ];
49
         }
```

图 3-15 MyArrayList 类(第一部分, 共两部分)