public class Item   
{   
  private int myN;   
  
  public Item( int n )   
  {   
    myN = n;   
  }   
  
  public String toString()   
  {   
    return "Item: " + myN;   
  }   
  
  public int getN()    
  {   
    return myN;   
  }   
  
  public static Item[] makeItemArray( int len )   
  {   
    Item[] a = new Item[ len ];   
    int i;   
    for ( i = 0 ; i < len ; i++ )   
      a[ i ] = new Item( i );   
    return a;   
  }   
}

Note in particular the definition of the class method makeItemArray. This method creates an array of type Item[]. It then iterates through the array, at each iteration replacing the existing element (which will be null) with a new Item object. By visiting each element of an array we are said to be *traversing* the array.

The next code fragment also involves the traversal of an array of Items. This time, at each iteration the code implicitly calls the toString method of each Item

  public static void main( String[] args )   
  {   
    Item[] array = Item.makeItemArray( 10 );   
    for ( Item item : array )   
      System.out.println( item );   
  }

[Show program details »](https://www.eimacs.com/eimacs/mainpage?cid=162149&epid=E2104720939)

Item: 0   
Item: 1   
Item: 2   
Item: 3   
Item: 4   
Item: 5   
Item: 6   
Item: 7   
Item: 8   
Item: 9