3. ArrayList Class: Using Wrapper Classes

To create an ArrayList that stores **int**s we can use the java.lang.Integer wrapper class with autoboxing.

```
ArrayList<Integer> listOfInt = new ArrayList<>();
listOfInt.add(1);
listOfInt.add(x);
listOfInt.add(2 * x - 1);
int x = listOfInt.get(2);
```

3. ArrayList Class: PrintReverse Application

We can now write the program that reads *ints-in.txt* and prints the numbers in reverse order to *ints-out.txt*.

```
// CLASS: PrintReverse
import java.io.File;
import java.io.FileNotFoundException;
import java.io.PrintWriter;
import java.lang.Integer;
import java.util.ArrayList;
import java.util.Scanner;
/**
* Reads a file named "ints-in.txt" containing integers and writes the integers to
* "ints-out.txt" in reverse order.
*/
class PrintReverse {
 public static void main(String[] args) throws FileNotFoundException {
   // Create an ArrayList of Integers.
   ArrayList<Integer> list = new ArrayList<>();
```

3. ArrayList Class: PrintReverse Application (continued)

```
// Open "ints-in.txt" for reading.
Scanner scanner = new Scanner(new File("ints-in.txt"));
// Read the integers from "ints-in.txt" placing them in the ArrayList.
while (scanner.hasNext()) {
  list.add(scanner.nextInt());
// Close the input file.
scanner.close();
// Open "ints-out.txt" for writing.
PrintWriter out = new PrintWriter(new File("ints-out.txt"));
// Walk through the ArrayList in reverse order, printing each element to the
// output file.
for (int i = list.size() - 1; i >= 0; --i) {
  out.println(list.get(i));
}
// Close the output file.
out.close();
```