

R13.1

An *index* is an integer value which represents a position in an array list. The bounds of an array list is from 0 to 1 less than the size of the array list. A bounds error occurs when either the minimum or maximum index value is exceeded in an attempted access of an array list element. Anything less than 0 or greater than or equal to the array list size will produce a bounds error.

R13.2

```
import java.util.ArrayList;
```

```
public class ExR13_2
{
    public static void main(String[] args)
    {
        ArrayList a = new ArrayList();
        a.add("a");
        a.add("b");
        String c = (String)a.get(2);
    }
}
```

When you run this program, you get an array index out of bounds exception.

Exception in thread "main" java.lang.IndexOutOfBoundsException: Index: 2, Size: 2

```
    at java.util.ArrayList....
    at ...
    at ExR13_2.main(ExR13_2.java:10)
```

The line number (10 in the example) helps you locate the error.

R13.3

```
import java.util.ArrayList;
```

```
public class ExR13_3
{
    public static void main(String[] args)
    {
        ArrayList coins = new ArrayList();
        coins.add(new Coin(0.10, "dime"));
        coins.add(new Coin(0.25, "quarter"));
        coins.add(new Coin(0.01, "penny"));
        coins.add(new Coin(0.05, "nickel"));

        Coin max = (Coin)coins.get(0);
        Coin min = (Coin)coins.get(0);
        for (int i = 1; i < coins.size(); i++)
        {
            Coin c = (Coin)coins.get(i);
            if (c.getValue() > max.getValue())
                max = c;

            if (c.getValue() < min.getValue())
                min = c;
        }
    }
}
```

Big Java Solution Manual

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Big Java Cay S. Horstmann, 2009-12-30 This book introduces programmers to objects at a gradual pace The syntax boxes are revised to show typical code examples rather than abstract notation This includes optional example modules using Alice and Greenfoot The examples feature annotations with dos and don ts along with cross references to more detailed explanations in the text New tables show a large number of typical and cautionary examples New programming and review problems are also presented that ensure a broad coverage of topics In addition Java 7 features are included to provide programmers with the most up to date information

Rapid Modernization of Java Applications: Practical Business and Technical Solutions for Upgrading Your Enterprise Portfolio G. Venkat, 2017-10-06 Implement a High Performance Enterprise Java Application Modernization Strategy Learn cutting edge techniques and processes to systematically and strategically modernize legacy Java applications with predictability consistency and confidence This Oracle Press guide offers an innovative blueprint that empowers corporate management teams to better understand necessary technical requirements and enables Java architects and developers to better align with agile business needs Rapid Modernization of Java Applications Practical Business and Technical Solutions for Upgrading Your Enterprise Portfolio contains modernization approaches that offer end to end Java application portfolio visibility so that application modernization projects can stay on schedule and within budget

Distributed Computing and Internet Technology Diganta Goswami, Truong Anh Hoang, 2020-12-11 This book constitutes the proceedings of the 17th International Conference on Distributed Computing and Internet Technology ICDCIT 2020 held in Bhubaneswar India in January 2021 The 13 full papers presented together with 4 short papers were carefully reviewed and selected from 99 submissions The papers were organized in topical sections named invited talks cloud computing and networks distributed algorithms concurrency and parallelism graph algorithms and security social networks and machine learning and short papers

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Programming with Java Julia Case, Bradley, Anita C. Millspaugh, 2002. Java has become one of the leading development languages today. It plays a very important role in application development for business as well as a tool for Web programming. This Java text is designed primarily for business programming students. It assumes no prior programming experience and introduces students to the object oriented approach from the very beginning. This text can be used for a first language course or for a more advanced programming course.

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