

```

                                FailsafeTest
// FailsafeTest.java - TEST THE FAILSAFE STORAGE PROGRAM
//
// MAINTENANCE HISTORY
// DATE          PROGRAMMER AND DETAILS
// 03-09-05     JS          Original
//
//-----

// IMPORTS

import java.io.*;
import java.util.*;

//-----

class FailsafeTest
{
    //-----

    static public void
    main (
    {
        String []      argv)          // Argument values
    {
        int            i, j;          // General purpose index
        byte []        wrArr;         // written byte array
        byte []        rdArr;         // Read byte array
        FailsafeStorage fs;           // Failsafe storage instance

        fs = new FailsafeStorage ();
        wrArr = new byte [4];
        for (i = 0; i < 1000; i++) {
            wrArr[0] = (byte)((i >> 24) & 0xff);
            wrArr[1] = (byte)((i >> 16) & 0xff);
            wrArr[2] = (byte)((i >> 8) & 0xff);
            wrArr[3] = (byte)(i & 0xff);
            try {
                fs.write (wrArr, wrArr.length);
            } catch (IOException e) {
                System.out.println ("Error: " + e.toString());
                System.exit (1);
            }
            rdArr = null;
            try {
                rdArr = fs.read ();
            } catch (IOException e) {
                System.out.println ("Error: " + e.toString());
                System.exit (1);
            }
            if (rdArr.length != wrArr.length) {
                System.out.println ("Error: length mismatch");
                System.exit (1);
            }
            for (j = 0; j < 4; j++) {
                if (rdArr[j] != wrArr[j]) {
                    System.out.println ("Error: data mismatch");
                    System.exit (1);
                }
            }
        }
    }
}

```