```java
 1  /* ShoeSizeqq — Eric McCreath 2015 — GPL
 2   * This class stores a persons shoe size.
 3   */
 4  import java.io.File;
 5  import java.io.FileNotFoundException;
 6  import java.io.FileReader;
 7  import java.io.FileWriter;
 8  import java.io.IOException;
 9
10  import org.json.simple.JSONObject;
11  import org.json.simple.JSONValue;
12
13
14  public class ShoeSize {
15      private static final String SHOESIZEENAME = "SHOESIZE";
16      public static final int SHOESIZEMAX = 15;
17      public static final int SHOESIZEMIN = 3;
18
19      static final String FILENAME = "shoesize.xml";
20
21      private Integer shoesize;
22
23      public ShoeSize() {
24
25      }
26
27      public String show() {
28          return (shoesize == null ? "" : shoesize.toString());
29      }
30
31      public boolean set(Integer v) {
32          if (v == null || v >= ShoeSize.SHOESIZEMIN && v <= ShoeSize.SHOESIZ
33              shoesize = v;
34              save();
35              return true;
36          } else {
37              shoesize = null;
38              return false;
39          }
40      }
41
42      static ShoeSize load() {
43          ShoeSize sss = new ShoeSize();
44          File f = new File(FILENAME);
45          try {
46              JSONObject obj = (JSONObject) JSONValue.parse(new FileReader(f)
47
48              sss.shoesize = ((Long) obj.get(SHOESIZEENAME)).intValue();
```

```java
49              } catch (FileNotFoundException e) {
50                  e.printStackTrace();
51              } catch (NullPointerException e){
52                  sss.shoesize = 0;
53              }
54              return sss;
55          }
56
57      void save() {
58              File f = new File(FILENAME);
59              JSONObject obj = new JSONObject();
60              obj.put(SHOESIZEENAME, shoesize);
61              FileWriter out;
62              try {
63                  out = new FileWriter(f);
64                  obj.writeJSONString(out);
65                  out.close();
66              } catch (IOException e) {
67                  e.printStackTrace();
68              }
69
70          }
71  }
72
```