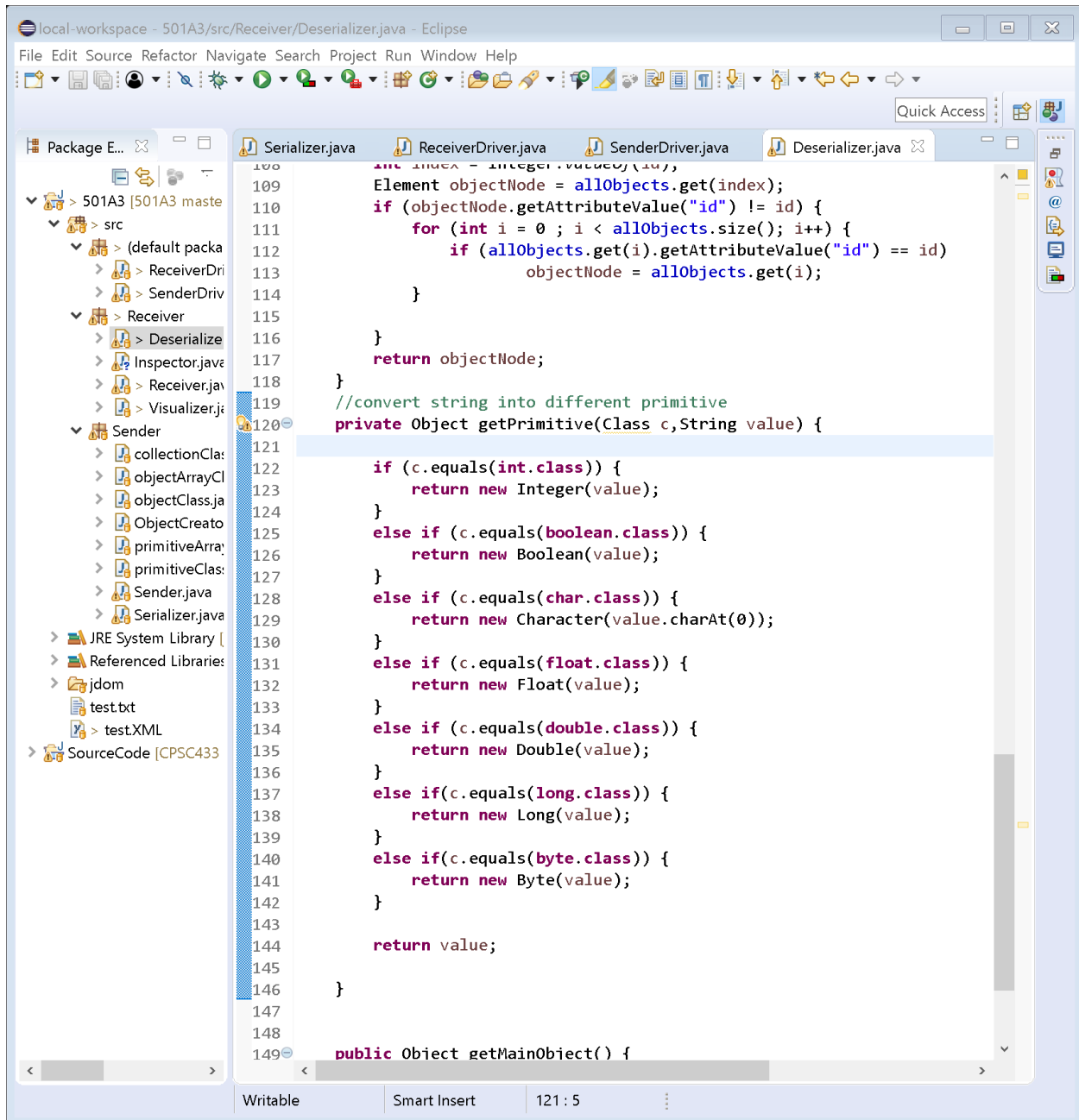


Zibin Mei

10085722

Refactoring log:

Extract helper method: getPrimitives(), due to parent method too large

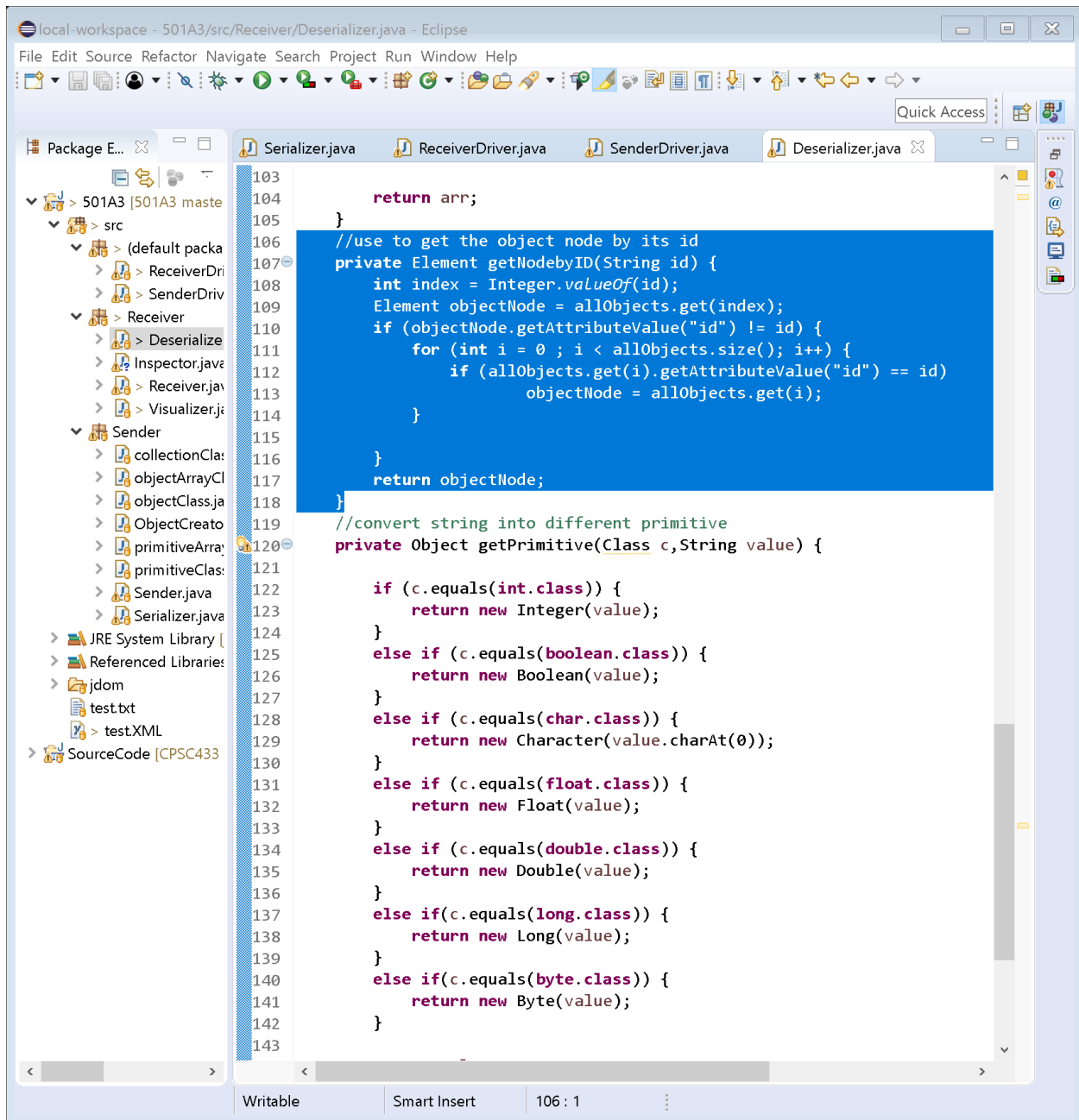


```
local-workspace - 501A3/src/Receiver/Deserializer.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer: 501A3 [501A3 master]
  src
    ReceiverDriver.java
    SenderDriver.java
    Receiver
      Deserializer.java
      Inspector.java
      Receiver.java
      Visualizer.java
    Sender
      collectionClass.java
      objectArrayClass.java
      objectClass.java
      ObjectCreator.java
      primitiveArrayClass.java
      primitiveClass.java
      Sender.java
      Serializer.java
  JRE System Library [JRE System Library]
  Referenced Libraries [Referenced Libraries]
  jdom
  test.txt
  test.XML
  SourceCode [CPSC433]

Serializer.java  ReceiverDriver.java  SenderDriver.java  Deserializer.java
108  int index = Integer.parseInt(id);
109  Element objectNode = allObjects.get(index);
110  if (objectNode.getAttributeValue("id") != id) {
111      for (int i = 0 ; i < allObjects.size(); i++) {
112          if (allObjects.get(i).getAttributeValue("id") == id)
113              objectNode = allObjects.get(i);
114      }
115  }
116  }
117  return objectNode;
118 }
119 //convert string into different primitive
120 private Object getPrimitive(Class c,String value) {
121     if (c.equals(int.class)) {
122         return new Integer(value);
123     }
124     else if (c.equals(boolean.class)) {
125         return new Boolean(value);
126     }
127     else if (c.equals(char.class)) {
128         return new Character(value.charAt(0));
129     }
130     else if (c.equals(float.class)) {
131         return new Float(value);
132     }
133     else if (c.equals(double.class)) {
134         return new Double(value);
135     }
136     else if(c.equals(long.class)) {
137         return new Long(value);
138     }
139     else if(c.equals(byte.class)) {
140         return new Byte(value);
141     }
142     return value;
143 }
144
145
146
147
148
149 public Object getMainObject() {
```

Writable Smart Insert 121 : 5

Extract helper method: getNodebyID() , due to redundant/duplicate



```
103
104     return arr;
105 }
106 //use to get the object node by its id
107 private Element getNodebyID(String id) {
108     int index = Integer.valueOf(id);
109     Element objectNode = allObjects.get(index);
110     if (objectNode.getAttributeValue("id") != id) {
111         for (int i = 0 ; i < allObjects.size(); i++) {
112             if (allObjects.get(i).getAttributeValue("id") == id)
113                 objectNode = allObjects.get(i);
114         }
115     }
116     return objectNode;
117 }
118 //convert string into different primitive
119 private Object getPrimitive(Class c,String value) {
120
121     if (c.equals(int.class)) {
122         return new Integer(value);
123     }
124     else if (c.equals(boolean.class)) {
125         return new Boolean(value);
126     }
127     else if (c.equals(char.class)) {
128         return new Character(value.charAt(0));
129     }
130     else if (c.equals(float.class)) {
131         return new Float(value);
132     }
133     else if (c.equals(double.class)) {
134         return new Double(value);
135     }
136     else if(c.equals(long.class)) {
137         return new Long(value);
138     }
139     else if(c.equals(byte.class)) {
140         return new Byte(value);
141     }
142 }
143
```

Extract class: Drivers, due to class is hard to find in the crowded package

There maybe some rename as well