A for loop is used to peruse the change array and to pass each change into the processRecords method of the data class. However, before the records are passed, the serialized data must be returned to an associate array format using the unserialize method. If the change request is Delete, type casting must occur to change the data (record number) into an integer. This is one of the few times that PHP requires type casting. Serialized data is not considered a data type. The data must be transformed by either unserializing it or type casting it. The change type (Update, Delete, or Insert) is passed into the first parameter of the processRecords method. The change array or the record number is passed into the second parameter of the method. All changes are made to the data, the file is backed up, and a new change log is created, in case there are more corruption problems.

*Example 6-4.* The displaychangelog.php file

```php
<?php
function displayRecords($row_Count, $change_Array, $change_File) {
echo "<html><head>";
echo "<style> table { border: 2px solid #5c744d;}  </style>";
echo "</head><body><table><caption>Log File: " . $change_File . "</caption>";
echo "<tr><th></th><th>Date/Time</th><th>Change Type</th><th>Change Data</th></tr><tr>";
for ($J=$row_Count -1; $J >= 0; $J--) {
        echo "<td><a href='readchangelog.php?rn=$J&change_File=$change_File'>Delete</a></td>";
        for($I=0; $I < 3; $I++) {
                echo "<td> " . $change_Array[$J][$I] . " </td> ";
        }
        echo "</tr>";
}
echo "</table>";
echo "</body></html>";
echo "</table>";
echo "</body></html>";
$directory = "";
$files = glob($directory . "*dog_data.xml");
echo "<form id='data_select' name='data_select' method='post' action='readchangelog.php'>";
echo "<h3>Delete entries above or select a file to update with change log $change_File</h3>";
echo "<select name='data_File' id='data_File'>";
foreach($files as $file) {
        echo "<option value='$file'>$file</option>";
}
echo "</select>";
echo "<input type='hidden' id='change_file' name='change_file' value='$change_File'>";
echo "<input type='submit' id='submit' name='submit' value='select'>";
echo "</form>";
}
function deleteRecord($recordNumber, &$row_Count, &$change_Array) {
for ($J=$recordNumber; $J < $row_Count - 1; $J++) {
        for($I=0; $I < 3; $I++) {
                $change_Array[$J][$I] = $change_Array[$J + 1][$I];
        }
}
unset($change_Array[$row_Count]);
$row_Count--;
}
```

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