```
<html>
   <head>
      <title>
         AIIP HW2 Demo
      </title>
   </head>
   <body>
      <h2> PHP 7 Object Oriented Design (Zebo Xiong)</h2>
      <form name="form hw2" method="POST">
         <input type="radio" name="funcs hw2" value="rmRow" >rmRow
         <input type="radio" name="funcs hw2"</pre>
value="rmAssocArray" >rmAssocArray
         <input type="radio" name="funcs hw2" value="addCol" >addCol
         <input type="radio" name="funcs hw2" value="rmCol" >rmCol
         <input type="radio" name="funcs hw2" value="renameCol" >renameCol
         <input type ="submit" name="submit" value="submit">
      </form>
   </body>
</html>
<?php
               if (isset($_POST['submit']))
                       $testObj = new table(array(
                               "a",
                               "b",
                               "C"
                       ));
                       $testObj->addRow(array(
                               7,
                               8,
                               9
                       ));
                       $testObj->addRow(array(
                               5,
                               6,
                               7
                       ));
                       $testObj->addRowAssocArray(array(
                               "b" \Rightarrow 0,
                               "a" => 6,
                               "c" => 3
                       ));
                       $zebo POST = $ POST['funcs hw2'];
```

```
if ($zebo POST == 'rmRow')
       print "Before\n";
       $testObj->output();
       print "After\n";
        $testObj->rmRow(array(
               7,
               8,
               9
       ));
        $testObj->output();
else if ($zebo_POST == 'rmAssocArray')
       print "Before\n";
        $testObj->output();
       print "After\n";
        $testObj->rmRowAssocArray(array(
               "b" => 0,
               "a" => 6,
               "c" => 3
       ));
        $testObj->output();
else if ($zebo_POST == 'rmCol')
       print "Before \n";
       $testObj->output();
       print "After\n";
        $testObj->rmCol("a");
        $testObj->output();
else if ($zebo POST == 'addCol')
       print "Before ${s}\n";
        $testObj->output();
       print "After add null column";
        $testObj->addCol("m");
        $testObj->output();
       print "After add null column k";
        $testObj->addCol("g", k);
        $testObj->output();
else if ($zebo POST == 'renameCol')
```

```
{
                               print "Before \n";
                               $testObj->output();
                               print "After renaming 1 column";
                               $testObj->renameCol("b");
                               $testObj->output();
                               print "After renaming multiple columns";
                               $testObj->renameCol("a", "b", "c");
                               $testObj->output();
                       }
?>
<?php
       class Table
               var $table array = array();
               var $headers = array();
               var $cols;
               function Table($headers)
                       $this->headers = $headers;
                       $this->cols = count($headers);
               }
               function addRow($row)
                       if (count($row) != $this->cols) return false;
                       array push($this->table array, $row);
                       return true;
               function addRowAssocArray($row assoc)
                       $row = array();
                       foreach ($this->headers as $header)
                               if (!isset($row assoc[$header]))
$row assoc[$header] = "";
                               $row[] = $row assoc[$header];
                       array push($this->table array, $row);
                       return true;
               }
               function rmRow($row)
                       if (in array($row, $this->table array))
                          foreach ($this->table array as $key => $value)
                               {
                                       print "key= " . $key;
                                       if ($row === $value)
unset($this->table array[$key]);
```

```
}
               function rmRowAssocArray($row assoc)
                       $row = array();
                       foreach ($this->headers as $header)
                               if (!isset($row assoc[$header]))
$row assoc[$header] = "";
                               $row[] = $row_assoc[$header];
                       foreach ($this->table array as $key => $value) {
                               if ($row === $value)
unset($this->table array[$key]);
               function addCol($colName, $col Value = "null")
                       if (!in array($colName, $this->headers))
                               $this->headers[$this->cols] = $colName;
                               foreach ($this->table_array as $key => $value)
{
                                       $this->table array[$key][$this->cols] =
$col Value;
                               }
               function rmCol($colName)
                       if (in array($colName, $this->headers)) {
                               $index = array search($colName,
$this->headers);
                       unset($this->headers[$index]);
                       foreach ($this->table array as $key => $value) {
                               unset($this->table array[$key][$index]);
```

```
function renameCol()
                      $k = 1;
                      foreach (func get args() as $aaa)
                              if (in array($aaa, $this->headers))
                                      $k = $k + 1;
                                      $index = array search($aaa,
$this->headers);
                                      $this->headers[$index] = $k;
                              }
                              else
                                      print "\n No such {$aaa} column";
                                      break;
                              print "\n";
               function output()
                      print "";
                      foreach ($this->headers as $header) print "<b>$header
</b> ";
                      print "\n";
                      foreach ($this->table array as $y)
                              foreach ($y as $xcell) print "$xcell ";
                              print "\n";
                      print "";
               }
       }
?>
```