

```
1. <?
2.  /*****
3.   * counter.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a counter. Demonstrates sessions.
9.   *****/
10.
11. // enable sessions
12. session_start();
13.
14. // check counter
15. if (isset($_SESSION["counter"]))
16.     $counter = $_SESSION["counter"];
17. else
18.     $counter = 0;
19.
20. // increment counter
21. $_SESSION["counter"] = $counter + 1;
22. ?>
23.
24. <!DOCTYPE html>
25.
26. <html>
27.     <head>
28.         <title>Counter</title>
29.     </head>
30.     <body>
31.         You have visited this site <?= $counter ?> time(s).
32.     </body>
33. </html>
```

```
1. <?
2.
3.     /**
4.      * dump.php
5.      *
6.      * Dumps HTTP requests.
7.      *
8.      * Computer Science 50
9.      * David J. Malan
10.     */
11.
12. ?>
13.
14. <!DOCTYPE html>
15.
16. <html>
17.     <head>
18.         <title>dump</title>
19.     </head>
20.     <body>
21.         <pre><? print_r($_GET); ?></pre>
22.     </body>
23. </html>
```

```
1. <!--
2.
3. form1.html
4.
5. A form without client-side validation.
6.
7. Computer Science 50
8. David J. Malan
9.
10. -->
11.
12. <!DOCTYPE html>
13.
14. <html>
15.   <head>
16.     <title>form1</title>
17.   </head>
18.   <body>
19.     <form action="dump.php" method="get">
20.       Email: <input name="email" type="text">
21.       <br>
22.       Password: <input name="password1" type="password">
23.       <br>
24.       Password (again): <input name="password2" type="password">
25.       <br>
26.       I agree to the terms and conditions: <input name="agreement" type="checkbox">
27.       <br><br>
28.       <input type="submit" value="Submit">
29.     </form>
30.   </body>
31. </html>
```

```
1. <!--
2.
3. form2.html
4.
5. A form with client-side validation.
6.
7. Computer Science 50
8. David J. Malan
9.
10. -->
11.
12. <!DOCTYPE html>
13.
14. <html>
15.   <head>
16.     <script type="text/javascript">
17.       // 
18.
19.         function validate()
20.         {
21.           if (document.forms.registration.email.value == "")
22.           {
23.             alert("You must provide an email address.");
24.             return false;
25.           }
26.           else if (document.forms.registration.password1.value == "")
27.           {
28.             alert("You must provide a password.");
29.             return false;
30.           }
31.           else if (document.forms.registration.password1.value != document.forms.registration.password2.value)
32.           {
33.             alert("You must provide the same password twice.");
34.             return false;
35.           }
36.           else if (!document.forms.registration.agreement.checked)
37.           {
38.             alert("You must agree to our terms and conditions.");
39.             return false;
40.           }
41.           return true;
42.         }
43.
44.       // ]]&gt;
45.     &lt;/script&gt;
46.     &lt;title&gt;form2&lt;/title&gt;
47.   &lt;/head&gt;
48.   &lt;body&gt;</pre></div>
```

```
49. <form action="dump.php" method="get" name="registration" onsubmit="return validate();" >
50.   Email: <input name="email" type="text">
51.   <br>
52.   Password: <input name="password1" type="password">
53.   <br>
54.   Password (again): <input name="password2" type="password">
55.   <br>
56.   I agree to the terms and conditions: <input name="agreement" type="checkbox">
57.   <br><br>
58.   <input type="submit" value="Submit">
59. </form>
60. </body>
61. </html>
```

```
1. <!--
2.
3. form3.html
4.
5. A form with client-side validation demonstrating "this" keyword.
6.
7. Computer Science 50
8. David J. Malan
9.
10. -->
11.
12. <!DOCTYPE html>
13.
14. <html>
15.   <head>
16.     <script type="text/javascript">
17.       // 
18.
19.         function validate(f)
20.         {
21.           if (f.email.value == "")
22.           {
23.             alert("You must provide an email address.");
24.             return false;
25.           }
26.           else if (f.password1.value == "")
27.           {
28.             alert("You must provide a password.");
29.             return false;
30.           }
31.           else if (f.password1.value != f.password2.value)
32.           {
33.             alert("You must provide the same password twice.");
34.             return false;
35.           }
36.           else if (!f.agreement.checked)
37.           {
38.             alert("You must agree to our terms and conditions.");
39.             return false;
40.           }
41.           return true;
42.         }
43.
44.       // ]]&gt;
45.     &lt;/script&gt;
46.     &lt;title&gt;form3&lt;/title&gt;
47.   &lt;/head&gt;
48.   &lt;body&gt;</pre></div>
```

```
49. <form action="dump.php" method="get" onsubmit="return validate(this);">
50.   Email: <input name="email" type="text">
51.   <br>
52.   Password: <input name="password1" type="password">
53.   <br>
54.   Password (again): <input name="password2" type="password">
55.   <br>
56.   I agree to the terms and conditions: <input name="agreement" type="checkbox">
57.   <br><br>
58.   <input type="submit" value="Submit">
59. </form>
60. </body>
61. </html>
```

```
1. <!--
2.
3. form4.html
4.
5. A form with client-side validation demonstrating disabled property.
6.
7. Computer Science 50
8. David J. Malan
9.
10. -->
11.
12. <!DOCTYPE html>
13.
14. <html>
15.   <head>
16.     <script type="text/javascript">
17.       // 
18.
19.         function toggle()
20.         {
21.           if (document.forms.registration.button.disabled)
22.             document.forms.registration.button.disabled = false;
23.           else
24.             document.forms.registration.button.disabled = true;
25.         }
26.
27.         function validate()
28.         {
29.           if (document.forms.registration.email.value == "")
30.           {
31.             alert("You must provide an email address.");
32.             return false;
33.           }
34.           else if (document.forms.registration.password1.value == "")
35.           {
36.             alert("You must provide a password.");
37.             return false;
38.           }
39.           else if (document.forms.registration.password1.value != document.forms.registration.password2.value)
40.           {
41.             alert("You must provide the same password twice.");
42.             return false;
43.           }
44.           else if (!document.forms.registration.agreement.checked)
45.           {
46.             alert("You must agree to our terms and conditions.");
47.             return false;
48.           }</pre></div>
```



```
49.         return true;
50.     }
51.
52. // ]]>
53. </script>
54. <title>form4</title>
55. </head>
56. <body>
57. <form action="dump.php" method="get" name="registration" onsubmit="return validate();" >
58.     Email: <input name="email" type="text">
59.     <br>
60.     Password: <input name="password1" type="password">
61.     <br>
62.     Password (again): <input name="password2" type="password">
63.     <br>
64.     I agree to the terms and conditions: <input name="agreement" onclick="toggle();" type="checkbox">
65.     <br><br>
66.     <input disabled="disabled" name="button" type="submit" value="Submit">
67. </form>
68. </body>
69. </html>
```

```
1. <!--
2.
3. form5.html
4.
5. A form with client-side validation demonstrating regular expressions.
6.
7. Computer Science 50
8. David J. Malan
9.
10. -->
11.
12. <!DOCTYPE html>
13.
14. <html>
15.   <head>
16.     <script type="text/javascript">
17.       // 
18.
19.         function validate()
20.         {
21.           if (!document.forms.registration.email.value.match(/.+@.+\.edu$/))
22.           {
23.             alert("You must provide a .edu email address.");
24.             return false;
25.           }
26.           else if (document.forms.registration.password1.value == "")
27.           {
28.             alert("You must provide a password.");
29.             return false;
30.           }
31.           else if (document.forms.registration.password1.value != document.forms.registration.password2.value)
32.           {
33.             alert("You must provide the same password twice.");
34.             return false;
35.           }
36.           else if (!document.forms.registration.agreement.checked)
37.           {
38.             alert("You must agree to our terms and conditions.");
39.             return false;
40.           }
41.           return true;
42.         }
43.
44.       // ]]&gt;
45.     &lt;/script&gt;
46.     &lt;title&gt;form5&lt;/title&gt;
47.   &lt;/head&gt;
48.   &lt;body&gt;</pre></div>
```

```
49. <form action="dump.php" method="get" name="registration" onsubmit="return validate();" >
50.   Email: <input name="email" type="text">
51.   <br>
52.   Password: <input name="password1" type="password">
53.   <br>
54.   Password (again): <input name="password2" type="password">
55.   <br>
56.   I agree to the terms and conditions: <input name="agreement" type="checkbox">
57.   <br><br>
58.   <input type="submit" value="Submit">
59. </form>
60. </body>
61. </html>
```

```
1. <?
2.  /*****
3.   * froshims0.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMs.
9.   * Submits to register0.php.
10.  *****/
11. ?>
12.
13. <!DOCTYPE html>
14.
15. <html>
16.   <head>
17.     <title>Frosh IMs</title>
18.   </head>
19.   <body>
20.     <div style="text-align: center">
21.       <h1>Register for Frosh IMs</h1>
22.       <br><br>
23.       <form action="register0.php" method="post">
24.         <table style="border: 0; margin-left: auto; margin-right: auto; text-align: left">
25.           <tr>
26.             <td>Name:</td>
27.             <td><input name="name" type="text"></td>
28.           </tr>
29.           <tr>
30.             <td>Captain:</td>
31.             <td><input name="captain" type="checkbox"></td>
32.           </tr>
33.           <tr>
34.             <td>Gender:</td>
35.             <td>
36.               <input name="gender" type="radio" value="F"> F
37.               <input name="gender" type="radio" value="M"> M
38.             </td>
39.           </tr>
40.           <tr>
41.             <td>Dorm:</td>
42.             <td>
43.               <select name="dorm">
44.                 <option value=""></option>
45.                 <option value="Apley Court">Apley Court</option>
46.                 <option value="Canaday">Canaday</option>
47.                 <option value="Grays">Grays</option>
48.                 <option value="Greenough">Greenough</option>
```

```
49.         <option value="Hollis">Hollis</option>
50.         <option value="Holworthy">Holworthy</option>
51.         <option value="Hurlbut">Hurlbut</option>
52.         <option value="Lionel">Lionel</option>
53.         <option value="Matthews">Matthews</option>
54.         <option value="Mower">Mower</option>
55.         <option value="Pennypacker">Pennypacker</option>
56.         <option value="Stoughton">Stoughton</option>
57.         <option value="Straus">Straus</option>
58.         <option value="Thayer">Thayer</option>
59.         <option value="Weld">Weld</option>
60.         <option value="Wigglesworth">Wigglesworth</option>
61.     </select>
62. </td>
63. </tr>
64. </table>
65. <br><br>
66. <input type="submit" value="Register!">
67. </form>
68. </div>
69. </body>
70. </html>
```

```
1. <?
2.  /*****
3.   * froshims1.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMs.
9.   * Submits to register1.php.
10.  *****/
11. ?>
12.
13. <!DOCTYPE html>
14.
15. <html>
16.   <head>
17.     <title>Frosh IMs</title>
18.   </head>
19.   <body>
20.     <div style="text-align: center">
21.       <h1>Register for Frosh IMs</h1>
22.       <br><br>
23.       <form action="register1.php" method="post">
24.         <table style="border: 0; margin-left: auto; margin-right: auto; text-align: left">
25.           <tr>
26.             <td>Name:</td>
27.             <td><input name="name" type="text"></td>
28.           </tr>
29.           <tr>
30.             <td>Captain:</td>
31.             <td><input name="captain" type="checkbox"></td>
32.           </tr>
33.           <tr>
34.             <td>Gender:</td>
35.             <td>
36.               <input name="gender" type="radio" value="F"> F
37.               <input name="gender" type="radio" value="M"> M
38.             </td>
39.           </tr>
40.           <tr>
41.             <td>Dorm:</td>
42.             <td>
43.               <select name="dorm">
44.                 <option value=""></option>
45.                 <option value="Apley Court">Apley Court</option>
46.                 <option value="Canaday">Canaday</option>
47.                 <option value="Grays">Grays</option>
48.                 <option value="Greenough">Greenough</option>
```

```
49.         <option value="Hollis">Hollis</option>
50.         <option value="Holworthy">Holworthy</option>
51.         <option value="Hurlbut">Hurlbut</option>
52.         <option value="Lionel">Lionel</option>
53.         <option value="Matthews">Matthews</option>
54.         <option value="Mower">Mower</option>
55.         <option value="Pennypacker">Pennypacker</option>
56.         <option value="Stoughton">Stoughton</option>
57.         <option value="Straus">Straus</option>
58.         <option value="Thayer">Thayer</option>
59.         <option value="Weld">Weld</option>
60.         <option value="Wigglesworth">Wigglesworth</option>
61.     </select>
62. </td>
63. </tr>
64. </table>
65. <br><br>
66. <input type="submit" value="Register!">
67. </form>
68. </div>
69. </body>
70. </html>
```

```
1. <?
2.  /*****
3.   * froshims2.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMs.
9.   * Submits to register2.php.
10.  *****/
11. ?>
12.
13. <!DOCTYPE html>
14.
15. <html>
16.   <head>
17.     <title>Frosh IMs</title>
18.   </head>
19.   <body>
20.     <div style="text-align: center;">
21.       <h1>Register for Frosh IMs</h1>
22.       <br><br>
23.       <form action="register2.php" method="post">
24.         <table style="border: 0; margin-left: auto; margin-right: auto; text-align: left">
25.           <tr>
26.             <td>Name:</td>
27.             <td><input name="name" type="text"></td>
28.           </tr>
29.           <tr>
30.             <td>Captain:</td>
31.             <td><input name="captain" type="checkbox"></td>
32.           </tr>
33.           <tr>
34.             <td>Gender:</td>
35.             <td>
36.               <input name="gender" type="radio" value="F"> F
37.               <input name="gender" type="radio" value="M"> M
38.             </td>
39.           </tr>
40.           <tr>
41.             <td>Dorm:</td>
42.             <td>
43.               <select name="dorm">
44.                 <option value=""></option>
45.                 <option value="Apley Court">Apley Court</option>
46.                 <option value="Canaday">Canaday</option>
47.                 <option value="Grays">Grays</option>
48.                 <option value="Greenough">Greenough</option>
```



```
49.         <option value="Hollis">Hollis</option>
50.         <option value="Holworthy">Holworthy</option>
51.         <option value="Hurlbut">Hurlbut</option>
52.         <option value="Lionel">Lionel</option>
53.         <option value="Matthews">Matthews</option>
54.         <option value="Mower">Mower</option>
55.         <option value="Pennypacker">Pennypacker</option>
56.         <option value="Stoughton">Stoughton</option>
57.         <option value="Straus">Straus</option>
58.         <option value="Thayer">Thayer</option>
59.         <option value="Weld">Weld</option>
60.         <option value="Wigglesworth">Wigglesworth</option>
61.     </select>
62. </td>
63. </tr>
64. </table>
65. <br><br>
66. <input type="submit" value="Register!">
67. </form>
68. </div>
69. </body>
70. </html>
```

```
1. <?
2.  /*****
3.   * froshims3.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMs.
9.   * Submits to register3.php.
10.  *****/
11. ?>
12.
13. <!DOCTYPE html>
14.
15. <html>
16.   <head>
17.     <title>Frosh IMs</title>
18.   </head>
19.   <body>
20.     <div style="text-align: center">
21.       <h1>Register for Frosh IMs</h1>
22.       <br><br>
23.       <form action="register3.php" method="post">
24.         <table style="border: 0; margin-left: auto; margin-right: auto; text-align: left">
25.           <tr>
26.             <td>Name:</td>
27.             <td><input name="name" type="text"></td>
28.           </tr>
29.           <tr>
30.             <td>Captain:</td>
31.             <td><input name="captain" type="checkbox"></td>
32.           </tr>
33.           <tr>
34.             <td>Gender:</td>
35.             <td>
36.               <input name="gender" type="radio" value="F"> F
37.               <input name="gender" type="radio" value="M"> M
38.             </td>
39.           </tr>
40.           <tr>
41.             <td>Dorm:</td>
42.             <td>
43.               <select name="dorm">
44.                 <option value=""></option>
45.                 <option value="Apley Court">Apley Court</option>
46.                 <option value="Canaday">Canaday</option>
47.                 <option value="Grays">Grays</option>
48.                 <option value="Greenough">Greenough</option>
```

```
49.         <option value="Hollis">Hollis</option>
50.         <option value="Holworthy">Holworthy</option>
51.         <option value="Hurlbut">Hurlbut</option>
52.         <option value="Lionel">Lionel</option>
53.         <option value="Matthews">Matthews</option>
54.         <option value="Mower">Mower</option>
55.         <option value="Pennypacker">Pennypacker</option>
56.         <option value="Stoughton">Stoughton</option>
57.         <option value="Straus">Straus</option>
58.         <option value="Thayer">Thayer</option>
59.         <option value="Weld">Weld</option>
60.         <option value="Wigglesworth">Wigglesworth</option>
61.     </select>
62. </td>
63. </tr>
64. </table>
65. <br><br>
66. <input type="submit" value="Register!" />
67. </form>
68. </div>
69. </body>
70. </html>
```

```
1. <?
2.  /*****
3.   * froshims4.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMs.  Submits to itself.
9.   *****/
10.
11. // if form was actually submitted, check for error
12. if (isset($_POST["action"]))
13. {
14.     if (empty($_POST["name"]) || empty($_POST["gender"]) || empty($_POST["dorm"]))
15.         $error = true;
16. }
17. ?>
18.
19. <!DOCTYPE html>
20.
21. <html>
22.     <head>
23.         <title>Frosh IMs</title>
24.     </head>
25.     <body>
26.         <div style="text-align: center">
27.             <h1>Register for Frosh IMs</h1>
28.             <? if ($error): ?>
29.                 <div style="color: red">You must fill out the form!</div>
30.             <? endif ?>
31.             <br><br>
32.             <form action="froshims4.php" method="post">
33.                 <table style="border: 0; margin-left: auto; margin-right: auto; text-align: left">
34.                     <tr>
35.                         <td>Name:</td>
36.                         <td><input name="name" type="text"></td>
37.                     </tr>
38.                     <tr>
39.                         <td>Captain:</td>
40.                         <td><input name="captain" type="checkbox"></td>
41.                     </tr>
42.                     <tr>
43.                         <td>Gender:</td>
44.                         <td>
45.                             <input name="gender" type="radio" value="F"> F
46.                             <input name="gender" type="radio" value="M"> M
47.                         </td>
48.                     </tr>
```

```
49.         <tr>
50.             <td>Dorm:</td>
51.             <td>
52.                 <select name="dorm">
53.                     <option value=""></option>
54.                     <option value="Apley Court">Apley Court</option>
55.                     <option value="Canaday">Canaday</option>
56.                     <option value="Grays">Grays</option>
57.                     <option value="Greenough">Greenough</option>
58.                     <option value="Hollis">Hollis</option>
59.                     <option value="Holworthy">Holworthy</option>
60.                     <option value="Hurlbut">Hurlbut</option>
61.                     <option value="Lionel">Lionel</option>
62.                     <option value="Matthews">Matthews</option>
63.                     <option value="Mower">Mower</option>
64.                     <option value="Pennypacker">Pennypacker</option>
65.                     <option value="Stoughton">Stoughton</option>
66.                     <option value="Straus">Straus</option>
67.                     <option value="Thayer">Thayer</option>
68.                     <option value="Weld">Weld</option>
69.                     <option value="Wigglesworth">Wigglesworth</option>
70.                 </select>
71.             </td>
72.         </tr>
73.     </table>
74.     <br><br>
75.     <input name="action" type="submit" value="Register!">
76. </form>
77. </div>
78. </body>
79. </html>
```

```
1. <?
2.  /*****
3.   * froshims5.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMs.  Submits to itself.
9.   * Pre-populates name field upon error.
10.  *****/
11.
12.  // if form was actually submitted, check for error
13.  if (isset($_POST["action"]))
14.  {
15.      if (empty($_POST["name"]) || empty($_POST["gender"]) || empty($_POST["dorm"]))
16.          $error = true;
17.  }
18. ?>
19.
20. <!DOCTYPE html>
21.
22. <html>
23.   <head>
24.     <title>Frosh IMs</title>
25.   </head>
26.   <body>
27.     <div style="text-align: center">
28.       <h1>Register for Frosh IMs</h1>
29.       <? if ($error): ?>
30.       <div style="color: red">You must fill out the form!</div>
31.       <? endif ?>
32.       <br><br>
33.       <form action="froshims5.php" method="post">
34.         <table style="border: 0; margin-left: auto; margin-right: auto; text-align: left">
35.           <tr>
36.             <td>Name:</td>
37.             <td><input name="name" type="text" value="<?= htmlspecialchars($_POST["name"]) ?>"></td>
38.           </tr>
39.           <tr>
40.             <td>Captain:</td>
41.             <td><input name="captain" type="checkbox"></td>
42.           </tr>
43.           <tr>
44.             <td>Gender:</td>
45.             <td>
46.               <input name="gender" type="radio" value="F"> F
47.               <input name="gender" type="radio" value="M"> M
48.             </td>
```

```
49.         </tr>
50.     <tr>
51.         <td>Dorm:</td>
52.         <td>
53.             <select name="dorm">
54.                 <option value=""></option>
55.                 <option value="Apley Court">Apley Court</option>
56.                 <option value="Canaday">Canaday</option>
57.                 <option value="Grays">Grays</option>
58.                 <option value="Greenough">Greenough</option>
59.                 <option value="Hollis">Hollis</option>
60.                 <option value="Holworthy">Holworthy</option>
61.                 <option value="Hurlbut">Hurlbut</option>
62.                 <option value="Lionel">Lionel</option>
63.                 <option value="Matthews">Matthews</option>
64.                 <option value="Mower">Mower</option>
65.                 <option value="Pennypacker">Pennypacker</option>
66.                 <option value="Stoughton">Stoughton</option>
67.                 <option value="Straus">Straus</option>
68.                 <option value="Thayer">Thayer</option>
69.                 <option value="Weld">Weld</option>
70.                 <option value="Wigglesworth">Wigglesworth</option>
71.             </select>
72.         </td>
73.     </tr>
74. </table>
75. <br><br>
76.     <input name="action" type="submit" value="Register!">
77. </form>
78. </div>
79. </body>
80. </html>
```

```
1. <?
2.  /*****
3.   * froshims6.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMS. Submits to itself.
9.   * Generates list of dorms via an array.
10.  *****/
11.
12.  // array of dorms
13.  $DORMS = array(
14.    "Apley Court",
15.    "Canaday",
16.    "Grays",
17.    "Greenough",
18.    "Hollis",
19.    "Holworthy",
20.    "Hurlbut",
21.    "Lionel",
22.    "Matthews",
23.    "Mower",
24.    "Pennypacker",
25.    "Stoughton",
26.    "Straus",
27.    "Thayer",
28.    "Weld",
29.    "Wigglesworth"
30.  );
31.
32.  // if form was actually submitted, check for error
33.  if (isset($_POST["action"]))
34.  {
35.      if (empty($_POST["name"]) || empty($_POST["gender"]) || empty($_POST["dorm"]))
36.          $error = true;
37.  }
38. ?>
39.
40.
41. <!DOCTYPE html>
42.
43. <html>
44.   <head>
45.     <title>Frosh IMS</title>
46.   </head>
47.   <body>
48.     <div style="text-align: center">
```



```
49.     <h1>Register for Frosh IMs</h1>
50.     <? if ($error): ?>
51.         <div style="color: red;">You must fill out the form!</div>
52.     <? endif ?>
53.     <br><br>
54.     <form action="froshims6.php" method="post">
55.         <table style="border: 0; margin-left: auto; margin-right: auto; text-align: left">
56.             <tr>
57.                 <td>Name:</td>
58.                 <td><input name="name" type="text" value="<?= htmlspecialchars($_POST["name"]) ?>"></td>
59.             </tr>
60.             <tr>
61.                 <td>Captain:</td>
62.                 <td><input name="captain" type="checkbox"></td>
63.             </tr>
64.             <tr>
65.                 <td>Gender:</td>
66.                 <td>
67.                     <input name="gender" type="radio" value="F"> F
68.                     <input name="gender" type="radio" value="M"> M
69.                 </td>
70.             </tr>
71.             <tr>
72.                 <td>Dorm:</td>
73.                 <td>
74.                     <select name="dorm">
75.                         <option value=""></option>
76.                         <? foreach ($DORMS as $dorm): ?>
77.                             <option value="<?= $dorm ?>"><?= $dorm ?></option>
78.                         <? endforeach ?>
79.                     </select>
80.                 </td>
81.             </tr>
82.         </table>
83.         <br><br>
84.         <input name="action" type="submit" value="Register!">
85.     </form>
86. </div>
87. </body>
88. </html>
```

```
1. <?
2.  /*****
3.   * froshims7.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMS.  Submits to itself.
9.   * Generates list of dorms via an array.  Pre-populates name and
10.  * dorm fields upon error.
11.  *****/
12.
13.  // array of dorms
14.  $DORMS = array(
15.    "Apley Court",
16.    "Canaday",
17.    "Grays",
18.    "Greenough",
19.    "Hollis",
20.    "Holworthy",
21.    "Hurlbut",
22.    "Lionel",
23.    "Matthews",
24.    "Mower",
25.    "Pennypacker",
26.    "Stoughton",
27.    "Straus",
28.    "Thayer",
29.    "Weld",
30.    "Wigglesworth"
31.  );
32.
33.  // if form was actually submitted, check for error
34.  if (isset($_POST["action"]))
35.  {
36.    if (empty($_POST["name"]) || empty($_POST["gender"]) || empty($_POST["dorm"]))
37.      $error = true;
38.  }
39.  ?>
40.
41. <!DOCTYPE html>
42.
43. <html>
44.   <head>
45.     <title>Frosh IMS</title>
46.   </head>
47.   <body>
48.     <div style="text-align: center">
```

```
49. <h1>Register for Frosh IMs</h1>
50. <? if ($error): ?>
51. <div style="color: red;">You must fill out the form!</div>
52. <? endif ?>
53. <br><br>
54. <form action="froshims7.php" method="post">
55. <table style="border: 0; margin-left: auto; margin-right: auto; text-align: left">
56. <tr>
57. <td>Name:</td>
58. <td><input name="name" type="text" value="<?= htmlspecialchars($_POST["name"]) ?>"></td>
59. </tr>
60. <tr>
61. <td>Captain:</td>
62. <td><input name="captain" type="checkbox"></td>
63. </tr>
64. <tr>
65. <td>Gender:</td>
66. <td>
67. <input name="gender" type="radio" value="F"> F
68. <input name="gender" type="radio" value="M"> M
69. </td>
70. </tr>
71. <tr>
72. <td>Dorm:</td>
73. <td>
74. <select name="dorm">
75. <option value=""></option>
76. <?
77. <foreach ($DORMS as $dorm)
78. {
79. <if ($_POST["dorm"] == $dorm)
80. <echo "<option selected='selected' value='$dorm'>$dorm</option>";
81. <else
82. <echo "<option value='$dorm'>$dorm</option>";
83. <}/
84. <?>
85. </select>
86. </td>
87. </tr>
88. </table>
89. <br><br>
90. <input name="action" type="submit" value="Register!">
91. </form>
92. </div>
93. </body>
94. </html>
```

```
1. <?
2.  /*****
3.   * froshims8.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMs.  Submits to
9.   * register8.php.
10.  *****/
11. ?>
12.
13. <!DOCTYPE html>
14.
15. <html>
16.   <head>
17.     <title>Frosh IMs</title>
18.   </head>
19.   <body>
20.     <div style="text-align: center">
21.       <h1>Register for Frosh IMs</h1>
22.       <br><br>
23.       <form action="register8.php" method="post">
24.         <table style="border: 0; margin-left: auto; margin-right: auto; text-align: left">
25.           <tr>
26.             <td>Name:</td>
27.             <td><input name="name" type="text"></td>
28.           </tr>
29.           <tr>
30.             <td>Captain:</td>
31.             <td><input name="captain" type="checkbox"></td>
32.           </tr>
33.           <tr>
34.             <td>Gender:</td>
35.             <td>
36.               <input name="gender" type="radio" value="F"> F
37.               <input name="gender" type="radio" value="M"> M
38.             </td>
39.           </tr>
40.           <tr>
41.             <td>Dorm:</td>
42.             <td>
43.               <select name="dorm">
44.                 <option value=""></option>
45.                 <option value="Apley Court">Apley Court</option>
46.                 <option value="Canaday">Canaday</option>
47.                 <option value="Grays">Grays</option>
48.                 <option value="Greenough">Greenough</option>
```

```
49.         <option value="Hollis">Hollis</option>
50.         <option value="Holworthy">Holworthy</option>
51.         <option value="Hurlbut">Hurlbut</option>
52.         <option value="Lionel">Lionel</option>
53.         <option value="Matthews">Matthews</option>
54.         <option value="Mower">Mower</option>
55.         <option value="Pennypacker">Pennypacker</option>
56.         <option value="Stoughton">Stoughton</option>
57.         <option value="Straus">Straus</option>
58.         <option value="Thayer">Thayer</option>
59.         <option value="Weld">Weld</option>
60.         <option value="Wigglesworth">Wigglesworth</option>
61.     </select>
62. </td>
63. </tr>
64. </table>
65. <br><br>
66. <input type="submit" value="Register!">
67. </form>
68. </div>
69. </body>
70. </html>
```

```
1. <?
2.  /*****
3.   * register0.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Dumps contents of $_POST.
9.   *****/
10.
11. ?>
12.
13. <!DOCTYPE html>
14.
15. <html>
16.   <head>
17.     <title>Frosh IMs</title>
18.   </head>
19.   <body>
20.     <pre>
21.       <? print_r($_POST); ?>
22.     </pre>
23.   </body>
24. </html>
```

```
1. <?
2.  /*****
3.   * register1.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMs. Redirects
9.   * user to froshims1.php upon error.
10.  *****/
11.
12.  // validate submission
13.  if (empty($_POST["name"]) || empty($_POST["gender"]) || empty($_POST["dorm"]))
14.  {
15.      header("Location: http://localhost/~jharvard/froshims/froshims1.php");
16.      exit;
17.  }
18.
19. ?>
20.
21. <!DOCTYPE html>
22.
23. <html>
24.   <head>
25.     <title>Frosh IMs</title>
26.   </head>
27.   <body>
28.     You are registered! (Well, not really.)
29.   </body>
30. </html>
```

```
1. <?
2.  /*****
3.   * register2.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMs.  Informs user of
9.   * any errors.
10.  *****/
11. ?>
12.
13. <!DOCTYPE html>
14.
15. <html>
16.   <head>
17.     <title>Frosh IMs</title>
18.   </head>
19.   <body>
20.     <? if (empty($_POST["name"]) || empty($_POST["gender"]) || empty($_POST["dorm"])): ?>
21.       You must provide your name, gender, and dorm!  Go <a href="froshims2.php">back</a>.
22.     <? else: ?>
23.       You are registered!  (Well, not really.)
24.     <? endif ?>
25.   </body>
26. </html>
```



```
1. <?
2.  /*****
3.   * register3.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMs. Reports registration
9.   * via email. Redirects user to froshims3.php upon error.
10.  *****/
11.
12.  // validate submission
13.  if (!empty($_POST["name"]) && !empty($_POST["gender"]) && !empty($_POST["dorm"]))
14.  {
15.
16.      $to = "malan@cs50.net";
17.      $subject = "Registration";
18.      $body = "This person just registered:\n\n" .
19.             $_POST["name"] . "\n" .
20.             $_POST["captain"] . "\n" .
21.             $_POST["gender"] . "\n" .
22.             $_POST["dorm"];
23.      $headers = "From: malan@cs50.net\r\n";
24.      mail($to, $subject, $body, $headers);
25.  }
26.  else
27.  {
28.      header("Location: http://localhost/~jharvard/froshims/froshims3.php");
29.      exit;
30.  }
31. ?>
32.
33. <!DOCTYPE html>
34.
35. <html>
36.   <head>
37.     <title>Frosh IMs</title>
38.   </head>
39.   <body>
40.     You are registered! (Really.)
41.   </body>
42. </html>
```

```
1. <?
2.  /*****
3.   * register8.php
4.   *
5.   * Computer Science 50
6.   * David J. Malan
7.   *
8.   * Implements a registration form for Frosh IMs. Records registration
9.   * in database. Redirects user to froshims8.php upon error.
10.  *****/
11.
12.  // validate submission
13.  if (empty($_POST["name"]) || empty($_POST["gender"]) || empty($_POST["dorm"]))
14.  {
15.      header("Location: http://localhost/~jharvard/froshims/froshims8.php");
16.      exit;
17.  }
18.
19.  // connect to database
20.  mysql_connect("localhost", "jharvard", "crimson");
21.  mysql_select_db("jharvard_week9");
22.
23.  // scrub inputs
24.  $name = mysql_real_escape_string($_POST["name"]);
25.  if ($_POST["captain"])
26.      $captain = 1;
27.  else
28.      $captain = 0;
29.  $gender = mysql_real_escape_string($_POST["gender"]);
30.  $dorm = mysql_real_escape_string($_POST["dorm"]);
31.
32.  // prepare query
33.  $sql = "INSERT INTO registrants (name, captain, gender, dorm)
34.  VALUES('$name', $captain, '$gender', '$dorm)";
35.
36.  // execute query
37.  mysql_query($sql);
38. ?>
39.
40. <!DOCTYPE html>
41.
42. <html>
43.   <head>
44.     <title>Frosh IMs</title>
45.   </head>
46.   <body>
47.     You are registered! (Really.)
48.   </body>
```

49. </html>

```
1. <?
2.     // connect to database
3.     mysql_connect("localhost", "jharvard", "crimson");
4.     mysql_select_db("jharvard_week9");
5.
6.     // prepare query
7.     $sql = "SELECT * FROM registrants";
8.
9.     // execute query
10.    $result = mysql_query($sql);
11. ?>
12.
13. <!DOCTYPE html>
14.
15. <html>
16.     <head>
17.         <title>Frosh IMs</title>
18.     </head>
19.     <body>
20.         <ul>
21.             <?
22.                 // iterate over results
23.                 while ($row = mysql_fetch_array($result))
24.                 {
25.                     print("<li>");
26.                     print(htmlspecialchars($row["name"]));
27.                     print("</li>");
28.                 }
29.             ?>
30.         </ul>
31.     </body>
32. </html>
```

```
1. <?
2.
3. /*****
4.  * dictionary.php
5.  *
6.  * Computer Science 50
7.  * David J. Malan
8.  *
9.  * Implements a dictionary.
10. *****/
11.
12.
13. // size of dictionary
14. $size = 0;
15.
16. // dictionary
17. $dictionary = array();
18.
19.
20. /*
21.  * bool
22.  * check($word)
23.  *
24.  * Returns true if word is in dictionary else false.
25.  */
26.
27. function check($word)
28. {
29.     global $dictionary;
30.     if ($dictionary[strtolower($word)])
31.         return true;
32.     else
33.         return false;
34. }
35.
36.
37. /*
38.  * bool
39.  * load($dict)
40.  *
41.  * Loads dict into memory. Returns true if successful else false.
42.  */
43.
44. function load($dict)
45. {
46.     global $dictionary, $size;
47.     if (!file_exists($dict) && is_readable($dict))
48.         return false;
```

```
49.     foreach (file($dict) as $word)
50.     {
51.         $dictionary[chop($word)] = true;
52.         $size++;
53.     }
54.     return true;
55. }
56.
57.
58. /*
59.  * int
60.  * size()
61.  *
62.  * Returns number of words in dictionary if loaded else 0 if not yet loaded.
63.  */
64.
65. function size()
66. {
67.     global $size;
68.     return $size;
69. }
70.
71.
72. /*
73.  * int
74.  * unload()
75.  *
76.  * Unloads dictionary from memory. Returns true if successful else false.
77.  */
78.
79. function unload()
80. {
81.     return true;
82. }
83.
84. ?>
```