```
1   <!DOCTYPE html>
2
3   <html>
4       <head>
5           <!-- Cucchi Francesco 5AI es1-10.php -->
6           <link rel="stylesheet" type="text/CSS" href="../style.css">
7
8           <?php
9               require_once '../functions.php'
10          ?>
11      </head>
12
13      <body>
14          <h2>Esercizio 1</h2>
15          <h3>Data e ora attuali</h3>
16          <?php
17              $today = date("Y/m/d, H:i");
18              echo "<p> Data di oggi: $today</p>"
19          ?>
20          <br>
21
22          <h2>Esercizio 2</h2>
23          <h3>Sequenza di Fibonacci</h3>
24          <ul>
25          <?php
26              $num1 = 1;
27              $num2 = 1;
28              for($k = 0; $k < 15; $k++){
29                  $res = $num1 + $num2;
30                  echo "<li>". $k+1 ."°: $res</li>";
31                  $num1 = $num2;
32                  $num2 = $res;
33              }
34          ?>
35          </ul>
36          <br>
37
38          <h2>Esercizio 3</h2>
39          <h3>Tavola pitagorica</h3>
40          <table>
41          <tbody>
42          <?php
43              $aus = true;
44              for($k = 1; $k <= 10; $k++){
45                  echo "<tr>";
46                  for($j = 1; $j <= 10; $j++){
47                      if($aus)
48                          echo "<td class=\"blTile\">" . $k*$j ."</td>";
49                      else
50                          echo "<td class=\"whTile\">" . $k*$j ."</td>";
51                      $aus = !$aus;
52                  }
53                  $aus = !$aus;
54                  echo "</tr>";
55              }
56          ?>
57          </tbody>
58          </table>
59          <br>
60
61          <h2>Esercizio 4</h2>
62          <h3>Potenze di n.</h3>
63          <table>
64          <thead>
65              <td>N</td>
66              <td>Radice</td>
67              <td>Quadrato</td>
68              <td>Cubo</td>
69          </thead>
70          <tbody>
71          <?php
72              for($k = 1; $k <= 15; $k++){
```

```php
            echo "<tr>";
            echo "<td>$k</td><td>" . round(sqrt($k), 2) . "</td><td>" . $k**2 .
            "</td><td>" . $k**3 . "</td>";
            echo "</tr>";
        }
    ?>
    </tbody>
    </table>
    <br>

    <h2>Esercizio 5</h2>
    <h3>Tabella ASCII</h3>
    <table>
    <thead>
        <td>Decimal</td>
        <td>Binary</td>
        <td>Character</td>
    </thead>
    <tbody>
    <?php
        for($k = 33; $k <= 127; $k++){
            echo "<tr>";
            echo "<td>$k</td><td>" . str_pad(decbin($k), 7, "0", STR_PAD_LEFT) .
            "</td><td>" . chr($k) . "</td>";
            echo "</tr>";
        }
    ?>
    </tbody>
    </table>
    <br>

    <h2>Esercizio 6</h2>
    <h3>Estrazioni del lotto</h3>
    <?php
        //5 random 1-90, tutti !=
        $numEstratti = randIntArr(1, 90, 5);
        sort($numEstratti);

        echo "Numeri estratti: ";
        for($k = 0; $k < 5; $k++){
            echo $numEstratti[$k] . " ";
        }

        //print_r($numEstratti);
    ?>
    <br>

    <h2>Esercizio 7</h2>
    <h3>Fattoriale</h3>
    <ul>
    <?php
        for($k = 1; $k <= 50; $k++){
            $factorial = 1;
            for($j = $k; $j > 1; $j--)
                $factorial = $factorial * $j;

            echo "<li> $k! = " . $factorial . "</li>";
            //echo "<li>" . stats_stat_factorial($k) . "</li>";
            // Se utilizzata la PECL extension
        }
    ?>
    </ul>
    <br>

    <h2>Esercizio 8</h2>
    <h3>Palindroma</h3>
    <form method="POST" action="riceviDaForm.php">
        Stringa cui verificare l'essere palindroma: <input type="text" name=
        "stringa" pattern=".{2,}" required>
        <input type="submit" value="Verifica">
    </form>
    <br>
```

```
142
143            <h2>Esercizio 9</h2>
144            <h3>Immagine casuale</h3>
145            <form method="POST" action="randomImage.php">
146                <input type="submit" value="Genera Img Casuale">
147            </form>
148            <br>
149
150            <h2>Esercizio 10</h2>
151            <h3>Calcoli statistici</h3>
152            <ul>
153            <?php
154                $nums = randIntArr(-1000, 1000, 20);
155                echo "<li>Numeri: | ";
156                $even = 0;
157                $odd = 0;
158                for($k = 0; $k < 20; $k++){
159                    echo $nums[$k] . " | ";
160
161                    if($nums[$k] % 2 == 0)
162                        $even++;
163                    else
164                        $odd++;
165                }
166                echo "</li>";
167                //minimo, massimo, media aritm, deviazione standard, pari e dispari
168                echo "<li>Minimo: " . min($nums) . "</li>";
169                echo "<li>Massimo: " . max($nums) . "</li>";
170                echo "<li>Media aritmetica: " . array_sum($nums) / count($nums) . "</li>";
171                echo "<li>Deviazione standard: " . round(strDev($nums), 3) . "</li>";
172                echo "<li>Pari: " . $even . "</li>";
173                echo "<li>Dispari: " . $odd . "</li>";
174            ?>
175            </ul>
176        </body>
177    </html>
```