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データベース名 endb2020

1. main.php

```
<!-- 6719027 戸簾武 67190573 永田雄介 -->
<!DOCTYPE html>
<html lang="ja">

<head>
<link rel="stylesheet" type="text/css"
href="/penshu4_2020/67190272/last/last.css">
<title>
POKER
</title>
<meta charset="utf-8">
</head>

<body>

<?php
@$con = pg_connect("host=kite.cs.miyazaki-u.ac.jp dbname=endb2020
user=enuser2020 password=enpass2020");
if ($con == false){
print("DATABASE CONNECTION ERROR¥n");
exit;
}

$sql1 = "select * from passdb";
@$result = pg_query($sql1);
$n = pg_num_rows($result);
if($result == false){
```

```
print"DATA ACQUISITION ERROR¥n";
exit;
}
```

```
for($i=0; $i<$n; $i++){
    $x[] = pg_fetch_result($result, $i, 0);
    $y[] = pg_fetch_result($result, $i, 2);
}
```

```
for($i=0; $i<$n-1; $i++){
    $min = $i;
    for($j=$i+1; $j<$n; $j++){
        if($y[$j] > $y[$min]){
            $min = $j;
        }
    }
    $tmp = $y[$min];
    $y[$min] = $y[$i];
    $y[$i] = $tmp;
```

```
    $tmp2 = $x[$min];
    $x[$min] = $x[$i];
    $x[$i] = $tmp2;
}
```

```
print "<h1>♠</h1>¥n";
print "<h1><font color = '#990000'>♦</font></h1>¥n";
print "<h1>POKER</h1>¥n";
print "<h1><font color = '#990000'>♥</font></h1>¥n";
print "<h1>♣</h1>¥n";
print "<br>";
print "<br>";
print "<a
href=¥"http://133.54.224.240/penshu4_2020/67190209/game/signup.html¥"
class=¥"button¥">Sign up</a>¥n";
print "<a
```

```

href="=http://133.54.224.240/penshu4_2020/67190209/game/login.html?"
class="=button?">Login</a>¥n";
print "<br>";
print "<br>";
print "<div class=¥\"box1¥\">";
print "<span class=¥\"box-title¥\">Ranking</span>";
print "    <p>";
for($i=0; $i<5; $i++){
    $j = $i + 1;
    print "Rank:";
    print "<font color = ¥\"aquamarine¥\">{$j}</font>";
    print "        UserName:";
    print "<font color = ¥\"aquamarine¥\" >{$x[$i]}</font>";
    print "        Coin:";
    print "<font color = ¥\"aquamarine¥\" >{$y[$i]}</font>";
    print "<br>";
}

print "</p>";
print "</div>";

pg_free_result($result);
pg_close($con);
?>

</body>
</html>

```

2. signup.php

```
<!DOCTYPE html>
```

```
<html lang="ja">
```

```
<head>
```

```
<link rel="stylesheet" href="signup2.css">
```

```
<title>
```

```
ユーザー登録
```

```
</title>
```

```
<meta charset="utf-8">
```

```
</head>
```

```
<body>
```

```
<h1><span>ユーザー登録</span></h1>
```

```
<?php
```

```
// データベースへの接続
```

```
@$con = pg_connect("host=kite.cs.miyazaki-u.ac.jp dbname=endb2020
```

```
user=enuser2020 password=enpass2020");
```

```
if ($con == false){
```

```
print(" <div class=¥"input_wrap¥">");
```

```
print("DATABASE CONNECTION ERROR¥n");
```

```
print("</div>");
```

```
exit;
```

```
}
```

```
$sql2 = "create table ".$_POST['uname']." (id int, pass text)"; // ユーザ名のテーブルを作成する。列は id と pass で、型はどちらも int。
```

```
print(" <div class=¥"input_wrap¥">");
```

```
print "<span>".$sql2."</span><br>";
```

```
print(" </div>");
```

```
@$result = pg_query($sql2); // SQL のコマンドでデータベースに問い合わせする。
```

```
if($result == false)
```

```
{
```

```
print(" <div class=¥"input_wrap¥">");
```

```
print"<span>TABLE CREATION ERROR</span>";
```

```
print "<div class=¥"wrap¥">";
```

```
print "<button class='button'><a  
href='http://133.54.224.240/penshu4_2020/67190272/last/main.php'  
戻る      </button></a>";  
print("</div>");  
print(" </div>");  
exit;  
}
```

```
$sql2 = "drop table ".$_POST['uname'];  
@$result = pg_query($sql2);
```

pg_free_result(\$result); // SQL の実行結果を格納していたメモリを解放。

\$sql1 = "select uname from passdb where uname = '{\$_POST['uname']}'"; // SQL
のコマンド文を文字列に格納する。

```
print(" <div class='input_wrap'>");  
print("<span>");  
print $sql1."<br>";  
print("</span>");  
print("</div>");
```

@\$result = pg_query(\$sql1); // SQL のコマンドでデータベースに問い合わせす
る。

```
if($result == false){  
print"DATA ACQUISITION ERROR";  
print "<div class='wrap'>";  
print "<button class='button'><a  
href='http://133.54.224.240/penshu4_2020/67190272/last/main.php'  
戻る      </button></a>";  
print("</div>");  
exit;  
}
```

```
$row = pg_num_rows($result);
```

```
pg_free_result($result); // SQL の実行結果を格納していたメモリを解放。
```

```
if($row > 0){ // 入力されたユーザ名が、データベースの中に1つ以上ある時は  
    「登録済み」
```

```
pg_close($con); // データベースとの接続を閉じる。
```

```
print("<div class='input_wrap'>");
```

```
print("<span>");
```

```
print "<p>¥n";
```

```
print "そのユーザ名は登録済みです。¥n";
```

```
print "</p>¥n";
```

```
print("</span>");
```

```
print "<p>¥n";
```

```
print "<div class='wrap'>";
```

```
print "<button class='button'><a
```

```
href='http://133.54.224.240/penshu4_2020/67190272/last/main.php'>
```

```
戻る      </button></a>¥n";
```

```
print("</div>");
```

```
print "</p>¥n";
```

```
print("</div>");
```

```
print "</body>¥n";
```

```
print "</html>¥n";
```

```
exit;
```

```
}
```

```
$sql1 = "insert into passdb
```

```
values('".$_POST['uname'].",".$_POST['pass'].",10)"; // テーブル passdb に、  
ユーザ名とパスワードを登録する。
```

```
print("<div class='input_wrap'>");
```

```
print "<span>".$sql1."</span><br>";
```

```
print("</div>");
```

```
@$result = pg_query($sql1); // SQL のコマンドでデータベースに問い合わせす
```

```

る。
if($result == false){
print"DATA INSERTION ERROR¥n";
print "<div class=¥"wrap¥">";
print "<button class=¥"button¥"><a
href=¥"http://133.54.224.240/penshu4_2020/67190272/last/main.php¥">
戻る      </button></a>¥n";
print("</div>");
exit;
}
pg_free_result($result); // SQL の実行結果を格納していたメモリを解放。

pg_close($con); // データベースとの接続を閉じる。
?>

<div class="input_wrap">
<p>
<span>ユーザを登録しました。</span>
</p>

<p>

<a
href="http://133.54.224.240/penshu4_2020/67190272/last/main.php"><span>
戻る</span></a>
</p>
</div>

</body>

</html>

```

3. login.php

```
<!DOCTYPE html>
```

```
<html lang="ja">
```

```
<head>
```

```
<link rel="stylesheet" href="signup.css">
```

```
<title>
```

```
ログイン画面
```

```
</title>
```

```
<meta charset="utf-8">
```

```
</head>
```

```
<body>
```

```
<h1><span>ログイン画面</span></h1>
```

```
<?php
```

```
// データベースへの接続
```

```
@$con = pg_connect("host=kite.cs.miyazaki-u.ac.jp dbname=endb2020
```

```
user=enuser2020 password=enpass2020");
```

```
if ($con == false){
```

```
print("<span>".$_POST['uname']."'はデータにありません</span>");
```

```
exit;
```

```
}
```

```
$sql1 = "select * from passdb where uname = '".$_POST['uname']."' and pass
```

```
='".$_POST['pass']."'";
```

```
print "<span>".$sql1."</span><br>";
```

```
$result = pg_query($sql1); // SQL のコマンドでデータベースに問い合わせす  
る。
```

```
print "<span>".$result."</span>";
```

```
@$count = pg_num_rows($result); //レコードがあるか判断する
```



```
if($count == null)
{
print("<span>DATABASE CONNECTION ERROR</span>");
print "<br>";
print("<a
href=¥\"http://133.54.224.240/penshu4_2020/67190272/last/main.php¥\"><span
>戻る</span>");
exit;
}
pg_free_result($result); // SQL の実行結果を格納していたメモリを解放
```

```
pg_close($con); // データベースとの接続を閉じる。
```

```
?>
```

```
<p>
<span>ログインします</span>
</p>
```

```
<?php
//min.php にユーザとパスワードの値を渡す
```

```
print ("<form action =¥\"main.php¥\" method=¥\"post¥\">");
print "<br>";
print("<span>USER:</span> <input type = ¥\"text¥\" name = ¥\"uname¥\"
value=\".$_POST['uname'].\">");
print("<span>PASS:</span><input type=¥\"text¥\" name=¥\"pass¥\"
value=\".$_POST['pass'].\"><br>");
```

```
print ("<input type = ¥\"submit¥\" value=¥\"submit¥\">");
```

```
?>
```

```
</body>
```

```
</html>
```

4. play.php

```
<!DOCTYPE html>
```

```
<html lang="ja">
```

```
<head>
```

```
<title>Poker</title>
```

```
<meta charset="utf-8">
```

```
<link rel="stylesheet" href="style.css">
```

```
<script src="scripts.js"></script>
```

```
<script src="https://kit.fontawesome.com/813ca13dc0.js"
crossorigin="anonymous"></script>
```

```
</head>
```

```
<body>
```

```
<?php
```

```
include 'poker.php';
```

```
// init
```

```
for($i = 0; $i < 52; $i++)
```

```
    $a[$i] = $i;
```

```
// shuffle
```

```
for($i = 0; $i < 52; $i++) {
```

```
    $r = rand(0, 51);
```

```
    swap($a[$i], $a[$r]);
```

```
}
```

```
/*
```

```
@$con = pg_connect("host=kite.cs.miyazaki-u.ac.jp dbname=endb2020
```

```
user=enuser2020 password=enpass2020");
```

```
if($con == false) {
```

```

        print "Database Connection Error";
        exit;
    }
    */

    if(isset($_POST['win'])) {
        $user = $_POST['user'];
        $coin = $_POST['coin'] + $_POST['win'];
        pg_query("update passdb set coin = '$coin' where uname = '$user'");
    }

```

```

// $user = $_POST['user'];
$user = "akira";
$sql = "select coin from passdb where uname = '$user'";
// @ $res = pg_query($sql);
$coin = 10000;
// $coin = pg_fetch_result($res, 0, 0);
$bet = 100;
$coin -= $bet;
?>

```

```

<ul class="navbar">
    <li style="padding-left: 30px"><a
href="http://133.54.224.240/penshu4_2020/67190272/last/main.php">Home</a
></li>
    <li><span class="title">P<i class="fas fa-heart heart"></i>KER</span></li>
    <li style="padding-right: 30px"><span>user: <?php print
$user; ?></span></li>
</ul>

```

```

<div class="yaku-table">
    <table class="table-left">
        <tr id="yaku11">
            <td>ロイヤルストレートスライム</td>
            <td class="yaku-bet" id="bet11"><?php print $bet * 500; ?></td>
        </tr>
    </table>

```

```
<tr id="yaku10">
    <td>ロイヤルストレートフラッシュ</td>
    <td class="yaku-bet" id="bet10"><?php print $bet * 100; ?></td>
</tr>
<tr id="yaku9">
    <td>ストレートフラッシュ</td>
    <td class="yaku-bet" id="bet9"><?php print $bet * 50; ?></td>
</tr>
<tr id="yaku8">
    <td>フォーカード</td>
    <td class="yaku-bet" id="bet8"><?php print $bet * 20; ?></td>
</tr>
<tr id="yaku7">
    <td>フルハウス</td>
    <td class="yaku-bet" id="bet7"><?php print $bet * 10; ?></td>
</tr>
</table>
<table class="table-right">
    <tr id="yaku6">
        <td>フラッシュ</td>
        <td class="yaku-bet" id="bet6"><?php print $bet * 5; ?></td>
    </tr>
    <tr id="yaku5">
        <td>ストレート</td>
        <td class="yaku-bet" id="bet5"><?php print $bet * 4; ?></td>
    </tr>
    <tr id="yaku4">
        <td>スリーカード</td>
        <td class="yaku-bet" id="bet4"><?php print $bet * 3; ?></td>
    </tr>
    <tr id="yaku3">
        <td>ツーペア</td>
        <td class="yaku-bet" id="bet3"><?php print $bet * 2; ?></td>
    </tr>
    <tr id="yaku2">
        <td>ペア</td>
```

```
        <td class="yaku-bet" id="bet2"><?php print $bet; ?></td>
    </tr>
</table>
</div> <!-- yaku-wrap end -->
```

```
<div class="play">
    <div class="cards">
<?php
    for($i = 0; $i < 5; $i++) {
        print "<div class='card'>\n";
        print "<label for='img{$i}'><img class='pointer-active'
id='card{$i}' src='img/cards/{$_a[$i]}.png'></label>\n";
        print "<input id='img{$i}' type='checkbox' name='check[]'
value={$i}> か え る\n";
        print "</div>\n";
    }
?>
    </div> <!-- cards div end -->
</div> <!-- play div end -->
```

```
<form id="myform" action="judge.php" method="post">
<?php
    for($i = 0; $i < 5; $i++)
        print "<input id='hidden{$i}' type='hidden' name='card[]'
value={$_a[$i]}>\n";
    print "<input id='hidden-user' type='hidden' name='user'
value={$user}>\n";
    print "<input id='hidden-bet' type='hidden' name='bet'
value={$bet}>\n";
    print "<input id='hidden-coin' type='hidden' name='coin'
value={$coin}>\n";
?>
    <div class="btn-wrap">
        <button id="change"> く ば る </button>
    </div>
</form>
```

```
<div class="text-wrap">
掛け金を決め かえたいカードにチェックを入れ くぼるを押してください.
</div>
```

```
<div class="bottom-wrap">
  <div class="wooper">
    <div class="wooper-title">COIN</div>
    <div class="wooper-detail" id="coin"><?php print $coin; ?></div>
  </div> <!-- coin-wrap end -->
  <div class="wooper">
    <div class="wooper-title">BET</div>
    <div class="wooper-detail" id="bet"><?php print $bet; ?></div>
  </div> <!-- bet-wrap end -->
  <div class="wooper-btn">
    <button class="bet-change" onclick="plusBet()">+</button>
    <button class="bet-change" onclick="minusBet()">-</button>
  </div>
</div> <!-- bottom-wrap end -->
```

```
<script>
function getChecked(name) {
  const cb = document.querySelectorAll(`input[name="${name}"]:checked`);
  let values = [];
  cb.forEach((checkbox) => {
    values.push(checkbox.value);
  });
  return values;
}
```

```
const btn = document.querySelector('#change');
btn.addEventListener('click', (event) => {
  var a = getChecked('check[]');
  var b = [<?php print "{$a[5]}, {$a[6]}, {$a[7]}, {$a[8]}, {$a[9]}"; ?>];
  for(var i = 0; i < a.length; i++) {
```

```

if(a[i] == 0) {
    document.getElementById(`card${a[i]}`).src = `img/cards/${b[0]}.png`;
    document.getElementById("hidden0").value = b[0];
} else if(a[i] == 1) {
    document.getElementById(`card${a[i]}`).src = `img/cards/${b[1]}.png`;
    document.getElementById("hidden1").value = b[1];
} else if(a[i] == 2) {
    document.getElementById(`card${a[i]}`).src = `img/cards/${b[2]}.png`;
    document.getElementById("hidden2").value = b[2];
} else if(a[i] == 3) {
    document.getElementById(`card${a[i]}`).src = `img/cards/${b[3]}.png`;
    document.getElementById("hidden3").value = b[3];
} else if(a[i] == 4) {
    document.getElementById(`card${a[i]}`).src = `img/cards/${b[4]}.png`;
    document.getElementById("hidden4").value = b[4];
}
}
btn.submit();
});

```

```

function plusBet() {
    var bet = document.getElementById("bet").textContent;
    var coin = document.getElementById("coin").textContent;
    if(parseInt(bet) + 100 <= 1000) {
        x = parseInt(bet) + 100;
        document.getElementById("bet").innerHTML = x;
        document.getElementById("bet2").innerHTML = x;
        document.getElementById("bet3").innerHTML = x * 2;
        document.getElementById("bet4").innerHTML = x * 3;
        document.getElementById("bet5").innerHTML = x * 4;
        document.getElementById("bet6").innerHTML = x * 5;
        document.getElementById("bet7").innerHTML = x * 10;
        document.getElementById("bet8").innerHTML = x * 20;
        document.getElementById("bet9").innerHTML = x * 50;
        document.getElementById("bet10").innerHTML = x * 100;
        document.getElementById("bet11").innerHTML = x * 500;
    }
}

```

```
document.getElementById("hidden-bet").value = x;

y = parseInt(coin) - 100;
document.getElementById("coin").innerHTML = y;
document.getElementById("hidden-coin").value = y;
}
}

function minusBet() {
    var bet = document.getElementById("bet").textContent;
    var coin = document.getElementById("coin").textContent;
    if(parseInt(bet) - 100 > 0) {
        x = parseInt(bet) - 100;
        document.getElementById("bet").innerHTML = x;
        document.getElementById("bet2").innerHTML = x;
        document.getElementById("bet3").innerHTML = x * 2;
        document.getElementById("bet4").innerHTML = x * 3;
        document.getElementById("bet5").innerHTML = x * 4;
        document.getElementById("bet6").innerHTML = x * 5;
        document.getElementById("bet7").innerHTML = x * 10;
        document.getElementById("bet8").innerHTML = x * 20;
        document.getElementById("bet9").innerHTML = x * 50;
        document.getElementById("bet10").innerHTML = x * 100;
        document.getElementById("bet11").innerHTML = x * 500;
        document.getElementById("hidden-bet").value = x;

        y = parseInt(coin) + 100;
        document.getElementById("coin").innerHTML = y;
        document.getElementById("hidden-coin").value = y;
    }
}

</script>

</body>
</html>
```


5. judge.php

```
<!DOCTYPE html>

<html lang="ja">

<head>
  <title>Poker</title>
  <meta charset="utf-8">
  <link rel="stylesheet" href="style.css">
  <script src="https://kit.fontawesome.com/813ca13dc0.js"
crossorigin="anonymous"></script>
</head>
<body>

<?php
include 'poker.php';

@$con = pg_connect("host=kite.cs.miyazaki-u.ac.jp dbname=endb2020
user=enuser2020 password=enpass2020");
if($con == false) {
  print "Database Connection Error";
  exit;
}

$a = $_POST['card'];
//$a = array(47, 48, 49, 50, 51);
$user = $_POST['user'];
$bet = $_POST['bet'];
$coin = $_POST['coin'];
$win = $bet;
?>

<ul class="navbar">
  <li style="padding-left: 30px"><a
href="http://133.54.224.240/penshu4_2020/67190272/last/main.php">Home</a
></li>
```

```
<li><span class="title">P<i class="fas fa-heart heart"></i>KER</span></li>
<li style="padding-right: 30px"><span>user: <?php print
$user; ?></span></li>
</ul>
```

```
<div class="yaku-table">
<table class="table-left">
<tr id="yaku12">
<td>ロイヤルストレートスライム</td>
<td class="yaku-bet" id="bet11"><?php print $bet * 500; ?></td>
</tr>
<tr id="yaku10">
<td>ロイヤルストレートフラッシュ</td>
<td class="yaku-bet" id="bet10"><?php print $bet * 100; ?></td>
</tr>
<tr id="yaku9">
<td>ストレートフラッシュ</td>
<td class="yaku-bet" id="bet9"><?php print $bet * 50; ?></td>
</tr>
<tr id="yaku8">
<td>フォーカード</td>
<td class="yaku-bet" id="bet8"><?php print $bet * 20; ?></td>
</tr>
<tr id="yaku7">
<td>フルハウス</td>
<td class="yaku-bet" id="bet7"><?php print $bet * 10; ?></td>
</tr>
</table>
<table class="table-right">
<tr id="yaku6">
<td>フラッシュ</td>
<td class="yaku-bet" id="bet6"><?php print $bet * 5; ?></td>
</tr>
<tr id="yaku5">
<td>ストレート</td>
<td class="yaku-bet" id="bet5"><?php print $bet * 4; ?></td>
```

```

        </tr>
        <tr id="yaku4">
            <td>スリーカード</td>
            <td class="yaku-bet" id="bet4"><?php print $bet * 3; ?></td>
        </tr>
        <tr id="yaku3">
            <td>ツープア</td>
            <td class="yaku-bet" id="bet3"><?php print $bet * 2; ?></td>
        </tr>
        <tr id="yaku2">
            <td>ペア</td>
            <td class="yaku-bet" id="bet2"><?php print $bet; ?></td>
        </tr>
    </table>
</div> <!-- yaku-wrap end -->

```

```

<div class="play">
    <div class="cards">
        <?php
            for($i = 0; $i < 5; $i++) {
                print "<div class='card'>";
                print "<img id='card{$i}' src='img/cards/{$_a[$i]}.png'>";
                print "</div>";
            }
        ?>
    </div> <!-- cards div end -->
</div> <!-- play div end -->

```

```

<div class="text-wrap">
    <?php switch(handRank($a)): ?>
    <?php case 1: ?>
    <?php
        $win = 0;
        $sql = "update passdb set coin = '$coin' where uname = '$user'";
        pg_query($sql);
    ?>

```

```
残念でした！</br>
もういちど ポーカーを遊びますか？
<div class="btn-wrap">
    <form action="play.php" method="post">
        <input type="hidden" name="user" value=<?php print $user; ?>>
        <button type="submit">はい</button>
    </form>
    <form
action="http://133.54.224.240/penshu4_2020/67190272/last/main.php">
        <button type="submit">いいえ</button>
    </form>
</div> <!-- end btn-wrap -->
</div> <!-- end text-wrap -->
<?php break; ?>

<?php default: ?>
    おめでとうございます！</br>
<?php
switch(handRank($a)):
    case 2:
        print "ペアです！";
        print "<script type=¥\"text/javascript¥\">";
        print "highlight({handRank($a)});";
        print "</script>";
        break;
    case 3:
        print "ツーペアです！";
        print "<script type=¥\"text/javascript¥\">";
        print "highlight({handRank($a)});";
        print "</script>";
        $win *= 2;
        break;
    case 4:
        print "スリーカードです！";
        print "<script type=¥\"text/javascript¥\">";
        print "highlight({handRank($a)});";
```

```
print "</script>";
```

```
$win *= 3;
```

```
break;
```

case 5:

```
print "ストレートです！";
```

```
print "<script type=¥\"text/javascript¥\">";
```

```
print "highlight({handRank($a)});";
```

```
print "</script>";
```

```
$win *= 4;
```

```
break;
```

case 6:

```
print "フラッシュです！";
```

```
print "<script type=¥\"text/javascript¥\">";
```

```
print "highlight({handRank($a)});";
```

```
print "</script>";
```

```
$win *= 5;
```

```
break;
```

case 7:

```
print "フルハウスです！";
```

```
print "<script type=¥\"text/javascript¥\">";
```

```
print "highlight({handRank($a)});";
```

```
print "</script>";
```

```
$win *= 10;
```

```
break;
```

case 8:

```
print "フォーカードです！";
```

```
print "<script type=¥\"text/javascript¥\">";
```

```
print "highlight({handRank($a)});";
```

```
print "</script>";
```

```
$win *= 20;
```

```
break;
```

case 9:

```
print "ストレートフラッシュです！";
```

```
print "<script type=¥\"text/javascript¥\">";
```

```
print "highlight({handRank($a)});";
```

```
print "</script>";
```

```

        $win *= 50;
        break;
    case 10:
        print "ロイヤルストレートフラッシュです！";
        print "<script type=¥\"text/javascript¥\">";
        print "highlight({handRank($a)});";
        print "</script>";
        $win *= 100;
        break;
    case 11:
        print "ファイブカードです！";
        break;
    case 12:
        print "ロイヤルストレートスライムです！";
        print "<script type=¥\"text/javascript¥\">";
        print "highlight({handRank($a)});";
        print "</script>";
        $win *= 500;
        break;
endswitch ?>

<br>
<?php print $win; ?>枚のコインが 当たりました. </br>
    成功すると <?php print($win * 2); ?>枚になります. </br>
    ダブルアップに挑戦しますか？
</div> <!-- end text-wrap -->
<div class="btn-wrap">
    <form action="doubleUp.php" method="post">
        <input type="hidden" name="user" value="<?php print $user; ?>">
        <input type="hidden" name="coin" value="<?php print $coin; ?>">
        <input type="hidden" name="bet" value="<?php print $win; ?>">
        <button type="submit">はい</button>
    </form>
    <form action="play.php" method="post">
        <input type="hidden" name="user" value="<?php print $user; ?>">
        <input type="hidden" name="coin" value="<?php print $coin; ?>">
        <input type="hidden" name="win" value="<?php print $win; ?>">

```

```

        <button type="submit">いいえ</button>
    </form>
</div> <!-- btn-wrap end -->

<?php endswitch ?>

<div class="bottom-wrap">
    <div class="wooper">
        <div class="wooper-title">COIN</div>
        <div class="wooper-detail" id="coin"><?php print $coin; ?></div>
    </div> <!-- coin-wrap end -->
    <div class="wooper">
        <div class="wooper-title">WIN</div>
        <div class="wooper-detail" id="bet"><?php print $win; ?></div>
    </div> <!-- bet-wrap end -->
</div> <!-- bottom-wrap end -->

<script>
function highlight(a) {
    var v = document.getElementById(`yaku${a}`);
    v.className += "highlight";
}
</script>

</body>
</html>

```

6. doubleUp.php

```

<!DOCTYPE html>

<html lang="ja">

<head>
    <title>Double Up</title>
    <meta charset="utf-8">
    <link rel="stylesheet" href="style.css">

```

```
<script src="https://kit.fontawesome.com/813ca13dc0.js"
crossorigin="anonymous"></script>
```

```
</head>
```

```
<body>
```

```
<?php
```

```
include 'poker.php';
```

```
// init
```

```
for($i = 0; $i < 52; $i++)
```

```
    $a[$i] = $i;
```

```
// shuffle
```

```
for($i = 0; $i < 52; $i++) {
```

```
    $r = rand(0, 51);
```

```
    swap($a[$i], $a[$r]);
```

```
}
```

```
$user = $_POST['user'];
```

```
$coin = $_POST['coin'];
```

```
$bet = $_POST['bet'];
```

```
?>
```

```
<ul class="navbar">
```

```
    <li style="padding-left: 30px"><a
```

```
href="http://133.54.224.240/penshu4_2020/67190272/last/main.php">Home</a
```

```
></li>
```

```
    <li><span class="title">P<i class="fas fa-heart heart"></i>KER</span></li>
```

```
    <li style="padding-right: 30px"><span>user: <?php print
```

```
$user; ?></span></li>
```

```
</ul>
```

```
<div class="yaku-table">
```

```
    <table class="table-left">
```

```
        <tr>
```

```
            <td>ロイヤルストレートスライム</td>
```



```
<td class="yaku-bet" id="bet10"> x500</td>
</tr>
<tr>
<td>ロイヤルストレートフラッシュ</td>
<td class="yaku-bet" id="bet10"> x100</td>
</tr>
<tr>
<td>ストレートフラッシュ</td>
<td class="yaku-bet" id="bet9">x50</td>
</tr>
<tr>
<td>フォーカード</td>
<td class="yaku-bet" id="bet8">x20</td>
</tr>
<tr>
<td>フルハウス</td>
<td class="yaku-bet" id="bet7">x10</td>
</tr>
</table>
<table class="table-right">
<tr>
<td>フラッシュ</td>
<td class="yaku-bet" id="bet6">x5</td>
</tr>
<tr>
<td>ストレート</td>
<td class="yaku-bet" id="bet5">x4</td>
</tr>
<tr>
<td>スリーカード</td>
<td class="yaku-bet" id="bet4">x3</td>
</tr>
<tr>
<td>ツーペア</td>
<td class="yaku-bet" id="bet3">x2</td>
</tr>
```

```

        <tr>
            <td>べ ㊦ </td>
            <td class="yaku-bet" id="bet2">x1</td>
        </tr>
    </table>
</div> <!-- yaku-table end -->

```

```

<div class="play">
    <form id="myform" action="doubleUpJudge.php" method="post">
        <div class="cards">
            <?php
                print "<div class='card'>\n";
                print "<img id='card0' src='img/cards/{$_a[0]}.png'>\n";
                print "</div>\n";
                for($i = 1; $i < 5; $i++) {
                    print "<div class='card'>\n";
                    print "<label for='img{$i}'><img id='card{$i}'"
src='img/cards/yellow_back.png'></label>\n";
                    if($i == 1)
                        print "<input id='img{$i}' type='radio' name='radio' value='{$i}'
checked>\n";
                    else
                        print "<input id='img{$i}' type='radio' name='radio'
value='{$i}'>\n";
                    print "</div>\n";
                }
            ?>
        </div> <!-- cards div end -->
    </div> <!-- play div end -->

```

```

<?php
    for($i = 0; $i < 5; $i++)
        print "<input id='hidden{$i}' type='hidden' name='card[]'
value={$_a[$i]}>\n";
    print "<input type='hidden' name='user' value='{$user}'>\n";
    print "<input type='hidden' name='coin' value='{$coin}'>\n";

```

```

        print "<input type='¥'hidden¥' name='¥'bet¥' value={\$bet}>¥n";
    ?>
    <div class="btn-wrap">
        <button id="submit">けっ てい</button>
    </div>
</form>

<div class="text-wrap">
オープンしている カードより<br>
強いカードを 右の 4 枚から 選んでください
</div>

<div class="bottom-wrap">
    <div class="wooper">
        <div class="wooper-title">COIN</div>
        <div class="wooper-detail" id="coin"><?php print \$coin; ?></div>
    </div> <!-- coin-wrap end -->
    <div class="wooper">
        <div class="wooper-title">BET</div>
        <div class="wooper-detail" id="bet"><?php print \$bet; ?></div>
    </div> <!-- bet-wrap end -->
</div> <!-- bottom-wrap end -->

</body>
</html>

```

7. doubleUpJudge.php

```

<!DOCTYPE html>

<html lang="ja">

<head>
    <title>Double Up</title>
    <meta charset="utf-8">
    <link rel="stylesheet" href="style.css">
    <script src="https://kit.fontawesome.com/813ca13dc0.js"

```

```
crossorigin="anonymous"></script>
</head>
<body>

<?php
include 'poker.php';

@$con = pg_connect("host=kite.cs.miyazaki-u.ac.jp dbname=endb2020
user=enuser2020 password=enpass2020");
if($con == false) {
    print "Database Connection Error";
    exit;
}

$a = $_POST['card'];
$b = $_POST['radio'];
$c = $a[0] % 13;
$d = $a[$b] % 13;

$user = $_POST['user'];
$coin = $_POST['coin'];
$bet = $_POST['bet'];
$win = $bet * 2;
?>

<ul class="navbar">
    <li style="padding-left: 30px"><a
href="http://133.54.224.240/penshu4_2020/67190272/last/main.php">Home</a
></li>
    <li><span class="title">P<i class="fas fa-heart heart"></i>KER</span></li>
    <li style="padding-right: 30px"><span>user: <?php print
$user; ?></span></li>
</ul>

<div class="yaku-table">
    <table class="table-left">
```

```
<tr>
  <td>ロイヤルストレートスライム</td>
  <td class="yaku-bet" id="bet10"> x500</td>
</tr>
<tr>
  <td>ロイヤルストレートフラッシュ</td>
  <td class="yaku-bet" id="bet10"> x100</td>
</tr>
<tr>
  <td>ストレートフラッシュ</td>
  <td class="yaku-bet" id="bet9">x50</td>
</tr>
<tr>
  <td>フォーカード</td>
  <td class="yaku-bet" id="bet8">x20</td>
</tr>
<tr>
  <td>フルハウス</td>
  <td class="yaku-bet" id="bet7">x10</td>
</tr>
</table>
<table class="table-right">
  <tr>
    <td>フラッシュ</td>
    <td class="yaku-bet" id="bet6">x5</td>
  </tr>
  <tr>
    <td>ストレート</td>
    <td class="yaku-bet" id="bet5">x4</td>
  </tr>
  <tr>
    <td>スリーカード</td>
    <td class="yaku-bet" id="bet4">x3</td>
  </tr>
  <tr>
    <td>ツーペア</td>
```

```

        <td class="yaku-bet" id="bet3">x2</td>
    </tr>
    <tr>
        <td>ペ ア</td>
        <td class="yaku-bet" id="bet2">x1</td>
    </tr>
</table>
</div> <!-- yaku-table end -->

```

```

<div class="play">
    <div class="cards">
        <?php
            for($i = 0; $i < 5; $i++) {
                print "<div class='card'>¥n";
                if($i == 0)
                    print "<img id='card0' src='img/cards/{$_a[0]}.png'>¥n";
                else if($i == $b)
                    print "<img id='card{$i}' src='img/cards/{$_a[$i]}.png'>¥n";
                else
                    print "<img id='card{$i}' src='img/cards/yellow_back.png'>¥n";
                print "</div>¥n";
            }
        ?>
    </div> <!-- cards div end -->
</div> <!-- play div end -->

```

```

<div class="text-wrap">
    <?php if($d > $c): ?>
        ダブルアップ成功です！ <br>
    <?php print $win; ?>枚の コインが当たりました。 <br>
    <br>
        成功すると コインが2倍になります。 <br>
        ダブルアップに挑戦しますか？
    </div> <!-- text-wrap div end -->
    <div class="btn-wrap">
        <form action="doubleUp.php" method="post">

```

```
<input type="hidden" name="user" value=<?php print $user; ?>>
<input type="hidden" name="coin" value=<?php print $coin; ?>>
<input type="hidden" name="bet" value=<?php print $win; ?>>
<button type="submit">はい</button>
</form>

<form action="play.php" method="post">
  <input type="hidden" name="user" value=<?php print $user; ?>>
  <input type="hidden" name="coin" value=<?php print $coin; ?>>
  <input type="hidden" name="win" value=<?php print $win; ?>>
  <button type="submit">いいえ</button>
</form>
</div> <!-- btn-wrap div end -->

<?php elseif($d < $c): ?>
<?php
$sql = "update passdb set coin = '$coin' where uname = '$user'";
pg_query($sql);
?>
  残念でした！<br>
  ポーカーを続けますか？
</div> <!-- text-wrap div end -->

<div class="btn-wrap">
  <form action="play.php" method="post">
    <input type="hidden" name="user" value=<?php print $user; ?>>
    <button type="submit">はい</button>
  </form>

  <form action="http://133.54.224.240/penshu4_2020/67190272/last/main.php"
method="post">
    <input type="hidden" name="user" value=<?php print $user; ?>>
    <button type="submit">いいえ</button>
  </form>
</div>

<?php else: ?>
</div> <!-- text-wrap div end -->
  引き分け！<br>
  もう一回 ダブルアップに挑戦しますか？
<div class="btn-wrap">
```

```

        <form action="doubleUp.php" method="post">
            <input type="hidden" name="user" value=<?php print $user; ?>>
            <input type="hidden" name="coin" value=<?php print $coin; ?>>
            <input type="hidden" name="bet" value=<?php print $bet; ?>>
            <button type="submit">はい</button>
        </form>
        <form action="play.php" method="post">
            <input type="hidden" name="user" value=<?php print $user; ?>>
            <button type="submit">いいえ</button>
        </form>
    </div>
<?php endif ?>

<div class="bottom-wrap">
    <div class="wooper">
        <div class="wooper-title">COIN</div>
        <div class="wooper-detail" id="coin"><?php print $coin; ?></div>
    </div> <!-- coin-wrap end -->
    <div class="wooper">
        <div class="wooper-title">WIN</div>
        <div class="wooper-detail" id="bet"><?php print $win; ?></div>
    </div> <!-- bet-wrap end -->
</div> <!-- bottom-wrap end -->

</body>
</html>

```

8. poker.php

```

<?php
include 'func.php';

function show($a) {
    for($i = 0; $i < 52; $i++)
        print $a[$i]. "¥n";
}

```



```
function _flush($a) {  
    for($i = 0; $i < 5; $i++)  
        $a[$i] /= 13;  
    $b = (int)$a[0];  
    for($i = 0; $i < 5; $i++)  
        if((int)$a[$i] != $b)  
            return false;  
    return true;  
}
```

```
function straight($a) {  
    for($i = 0; $i < 5; $i++)  
        $a[$i] %= 13;  
    sort($a);  
    $b = $a[0];  
    for($i = 0; $i < 5; $i++)  
        if($a[$i] != $b++)  
            return false;  
    return true;  
}
```

```
function straightFlush($a) {  
    if(!_flush($a))  
        return false;  
    if(!straight($a))  
        return false;  
    return true;  
}
```

```
function quads($a) {  
    for($i = 0; $i < 5; $i++)  
        $a[$i] %= 13;  
    sort($a);  
    for($i = 0; $i + 3 < 5; $i++)  
        if($a[$i] == $a[$i + 3])
```

```
        return true;
    return false;
}
```

```
function trips($a) {
    for($i = 0; $i < 5; $i++)
        $a[$i] %= 13;
    sort($a);
    $b = $a[0];
    $count = 0;
    for($i = 0; $i + 2 < 5; $i++)
        if($a[$i] == $a[$i + 1] && $a[$i] == $a[$i + 2])
            return true;
    return false;
}
```

```
function twoPair($a) {
    for($i = 0; $i < 5; $i++)
        $a[$i] %= 13;
    sort($a);
    $count = 0;
    for($i = 0; $i + 1 < 5; $i++)
        if($a[$i] == $a[$i + 1])
            $count++;
    if($count == 2)
        return true;
    return false;
}
```

```
function pair($a) {
    for($i = 0; $i < 5; $i++)
        $a[$i] %= 13;
    sort($a);
    for($i = 0; $i + 1 < 5; $i++)
        if($a[$i] == $a[$i + 1])
            return true;
}
```

```
    return false;
}
```

```
function fullHouse($a) {
    for($i = 0; $i < 5; $i++)
        $a[$i] %= 13;
    sort($a);
    $b = $a[0];
    $c = $a[4];
    $count1 = 0;
    $count2 = 0;
    for($i = 0; $i < 5; $i++) {
        if($a[$i] == $b)
            $count1++;
        if($a[$i] == $c)
            $count2++;
    }
    if($count1 > $count2)
        swap($count1, $count2);
    if($count1 == 2 and $count2 == 3)
        return true;
    return false;
}
```

```
function royal($a) {
    if(!straightFlush($a))
        return false;
    sort($a);
    if($a[0] % 13 != 8)
        return false;
    return true;
}
```

```
function royalSlime($a) {
    if(!royal($a))
        return false;
```

```
$b = (int)($a[0] / 13);  
if($b != 3)  
    return false;  
return true;  
}
```

```
function handRank($a) {  
    if(royalSlime($a))    return 12;  
    if(royal($a))         return 10;  
    if(straightFlush($a)) return 9;  
    if(quads($a))         return 8;  
    if(fullHouse($a))     return 7;  
    if(_flush($a))        return 6;  
    if(straight($a))      return 5;  
    if(trips($a))         return 4;  
    if(twoPair($a))       return 3;  
    if(pair($a))          return 2;  
    return 1;  
}
```

```
function highCard($a, $b) {  
    $n = count($a);  
    rsort($a);  
    rsort($b);  
    for($i = 0; $i < $n; $i++) {  
        if($a[$i] < $b[$i])  
            return false;  
        if($a[$i] > $b[$i])  
            return true;  
    }  
    return true;  
}
```

```
// a < b : false  
// a > b : true  
function better($a, $b, $rank) {
```

```

for($i = 0; $i < 5; $i++) {
    $a[$i] %= 13;
    $b[$i] %= 13;
}
sort($a);
sort($b);

switch($rank) {
    case 2:
        for($i = 0; $i + 1 < 5; $i++) {
            if($a[$i] == $a[$i + 1])
                $a_pair = $a[$i];
            if($b[$i] == $b[$i + 1])
                $b_pair = $b[$i];
        }
        if($a_pair < $b_pair)
            return false;
        if($a_pair > $b_pair)
            return true;

        $j = 0;
        for($i = 0; $i < 5; $i++) {
            if($a[$i] == $a_pair) continue;
            $x[$j++] = $a[$i];
        }
        $j = 0;
        for($i = 0; $i < 5; $i++) {
            if($b[$i] == $b_pair) continue;
            $y[$j++] = $b[$i];
        }

        return highCard($x, $y);
    case 3:
        for($i = 0; $i + 1 < 5; $i++) {
            if($a[$i] == $a[$i + 1])
                $ap1 = $a[$i];
            if($b[$i] == $b[$i + 1])

```

```

        $bp1 = $b[$i];
    }
    for($i = 0; $i + 1 < 5; $i++) {
        if($a[$i] != $ap1 && $a[$i] == $a[$i + 1])
            $ap2 = $a[$i];
        if($b[$i] != $bp1 && $b[$i] == $b[$i + 1])
            $bp2 = $b[$i];
    }
    if($ap1 < $bp1)
        return false;
    if($ap1 > $bp1)
        return true;
    if($ap2 < $bp2)
        return false;
    if($ap2 > $bp2)
        return true;
    for($i = 0; $i < 5; $i++) {
        if($a[$i] != $ap1 && $a[$i] != $ap2)
            $x = $a[$i];
        if($b[$i] != $bp1 && $b[$i] != $bp2)
            $y = $b[$i];
    }
    if($x < $y)
        return false;
    break;
case 4:
    for($i = 0; $i + 2 < 5; $i++) {
        if($a[$i] == $a[$i + 1] && $a[$i] == $a[$i + 2])
            $at = $a[$i];
        if($b[$i] == $b[$i + 1] && $b[$i] == $b[$i + 2])
            $bt = $b[$i];
    }
    if($at < $bt)
        return false;
    break;
case 7:

```

```

        for($i = 0; $i + 2 < 5; $i++) {
            if($a[$i] == $a[$i + 1] && $a[$i] == $a[$i + 2])
                $at = $a[$i];
            if($b[$i] == $b[$i + 1] && $b[$i] == $b[$i + 2])
                $bt = $b[$i];
        }
        if($at < $bt)
            return false;
        break;
    case 8:
        for($i = 0; $i + 3 < 5; $i++) {
            if($a[$i] == $a[$i + 3])
                $aq = $a[$i];
            if($b[$i] == $b[$i + 3])
                $bq = $b[$i];
        }
        if($aq < $bq)
            return false;
        break;
    default:
        return highCard($a, $b);
    }
    return true;
}

```

```

function bestHand($a) {
    // 7C5
    $b[0] = array($a[0], $a[1], $a[2], $a[3], $a[4]);
    $b[1] = array($a[0], $a[1], $a[2], $a[3], $a[5]);
    $b[2] = array($a[0], $a[1], $a[2], $a[3], $a[6]);
    $b[3] = array($a[0], $a[1], $a[2], $a[4], $a[5]);
    $b[4] = array($a[0], $a[1], $a[2], $a[4], $a[6]);
    $b[5] = array($a[0], $a[1], $a[2], $a[5], $a[6]);
    $b[6] = array($a[0], $a[1], $a[3], $a[4], $a[5]);
    $b[7] = array($a[0], $a[1], $a[3], $a[4], $a[6]);
    $b[8] = array($a[0], $a[1], $a[3], $a[5], $a[6]);
}

```

```

$b[9] = array($a[0], $a[1], $a[4], $a[5], $a[6]);
$b[10] = array($a[0], $a[2], $a[3], $a[4], $a[5]);
$b[11] = array($a[0], $a[2], $a[3], $a[4], $a[6]);
$b[12] = array($a[0], $a[2], $a[3], $a[5], $a[6]);
$b[13] = array($a[0], $a[2], $a[4], $a[5], $a[6]);
$b[14] = array($a[0], $a[3], $a[4], $a[5], $a[6]);
$b[15] = array($a[1], $a[2], $a[3], $a[4], $a[5]);
$b[16] = array($a[1], $a[2], $a[3], $a[4], $a[6]);
$b[17] = array($a[1], $a[2], $a[3], $a[5], $a[6]);
$b[18] = array($a[1], $a[2], $a[4], $a[5], $a[6]);
$b[19] = array($a[1], $a[3], $a[4], $a[5], $a[6]);
$b[20] = array($a[2], $a[3], $a[4], $a[5], $a[6]);

```

```

for($i = 0; $i < 21; $i++)
    $c[$i] = handRank($b[$i]);

```

```

$d = $b[0];
$id = 0;
for($i = 1; $i < 21; $i++) {
    if($c[$i] < $c[$id])
        continue;
    if($c[$i] == $c[$id])
        if(!better($b[$i], $d, $c[$i]))
            continue;
    $d = $b[$i];
    $id = $i;
}
return $d;
}

```

?>

9. func.php

```
<?php
```



```
function swap(&$a, &$b) {
    $tmp = $a;
    $a = $b;
    $b = $tmp;
}

function print_card($a) {
    $s = $a / 13;
    $a %= 13;

    if($a == 9)    $b = "J";
    if($a == 10) $b = "Q";
    if($a == 11) $b = "K";
    if($a == 12) $b = "A";
    if($a < 9)    $b = $a + 2;

    $s = (int)$s;
    if($s == 0) $c = " Diamond";
    if($s == 1) $c = " Club";
    if($s == 2) $c = " Heart";
    if($s == 3) $c = " Spade";

    print "<h3>".$b.$c."</h3>";
}

?>
```

10. style.css

```
body {
    margin: 0;
    display: flex;
    flex-direction: column;
    align-items: center;
    background-image: url("img/red.jpg");
    background-size: cover;
```

```
    color: white;
    font-size: 1.5rem;
}
```

```
a {
    text-decoration: none;
}
```

```
p {
    margin: 0;
    padding: 0;
}
```

```
button, input[type=checkbox], input[type=radio] {
    cursor: pointer;
}
```

```
.pointer-active {
    cursor: pointer;
}
```

```
.navbar {
    width: 100%;
    height: 65px;
    display: flex;
    list-style-type: none;
    margin: 0;
    padding: 0;
    overflow: hidden;
    background-color: rgba(0, 0, 0, 0.7);
    border-bottom: 3px solid blue;
    justify-content: space-between;
    position: fixed;
    z-index: 0;
}
```

```
.navbar li a {  
  height: 100%;  
  display: block;  
  color: white;  
  text-align: center;  
  padding: 14px 16px;  
  text-decoration: none;  
}
```

```
.navbar li a:hover {  
  background-color: rgba(255, 255, 255, 0.3);  
}
```

```
.navbar li span {  
  display: block;  
  color: white;  
  text-align: center;  
  padding: 14px 16px;  
  text-decoration: none;  
}
```

```
.title {  
  font-size: 2rem;  
  font-weight: bold;  
}
```

```
.heart {  
  font-size: 1.7rem;  
  color: red;  
}
```

```
.cards {  
  display: flex;  
  margin-top: 20px;  
}
```

```
.card {  
  display: flex;  
  flex-direction: column;  
  align-items: center;  
  margin: 0 25px;  
}
```

```
.card img {  
  width: 170px;  
  padding-bottom: 10px;  
}
```

```
.btn-wrap {  
  display: flex;  
  justify-content: center;  
}
```

```
.btn-wrap button {  
  background-color: rgba(0, 0, 0, 0.7);  
  font-size: 1.5rem;  
  color: white;  
  margin: 5px;  
  padding: 10px 50px;  
  width: 210px;  
  border: none;  
  outline: none;  
  border-radius: 18px;  
  border: 3px solid white;  
}
```

```
.text-wrap {  
  width: 1200px;  
  text-align: center;  
  margin: 20px;  
  margin-bottom: 0;  
  padding: 10px 0;
```

```
    background-color: rgba(0, 0, 0, 0.5);
    border: 3px solid white;
    border-radius: 10px;
}
```

```
.bottom-wrap {
    display: flex;
    justify-content: center;
    align-items: center;
}
```

```
.wooper {
    margin: 30px;
    width: 400px;
}
```

```
.wooper-title {
    font-size: 1rem;
    width: 50px;
    padding: 10px;
    text-align: center;
    background-color: rgba(0, 0, 0, 0.5);
    border: 3px solid green;
    border-radius: 10px;
}
```

```
.wooper-detail {
    font-size: 2rem;
    padding: 10px;
    text-align: right;
    background-color: rgba(0, 0, 0, 0.5);
    border: 3px solid green;
    border-radius: 10px;
}
```

```
.wooper-btn {
```

```
display: flex;
flex-direction: column;
margin-left: -20px;
margin-bottom: -50px;
}
```

```
.bet-change {
width: 35px;
height: 35px;
margin: 2px;
font-size: 1.7rem;
border-radius: 10px;
}
```

```
.yaku-table {
width: 1200px;
font-size: 1.5rem;
margin: 10px;
margin-top: 80px;
display: flex;
justify-content: center;
background-color: rgba(0, 0, 0, 0.5);
border: 3px solid green;
border-radius: 10px;
}
```

```
.table-left {
padding-right: 100px;
}
```

```
.yaku-bet {
width: 100px;
text-align: center;
}
```

```
.highlight {
```

```
color: yellow;  
}
```