```php
<? session_start(); ?>
<!doctype html>
<html>
<head>
<meta charset="UTF-8">
<title>Jellybean game</title>
</head>
<body>
<?
if(!$_POST['submit']){
        capacityForm();
}else{
        if(!$_SESSION['r']){
                if(!$_POST['capacity']){
                        echo "<h2>You did not enter a capacity.</h2>";
                        capacityForm();
                        exit();
                }else{
                        $_SESSION['r'] = rand(0,$_POST['capacity']);
                }
        }
        if(!$_POST['guess'] && $_POST['submit'] != "Guess"){
                guess();
        }else{
                checkGuess($_POST['guess']);
                if($_POST['guess']<$_SESSION['r']){
                        echo "Guess was too low, try again.";
                        guess();
                        $_SESSION['counter']++;
                }elseif($_POST['guess']>$_SESSION['r']){
                        echo "Guess was too high, try again.";
                        guess();
                        $_SESSION['counter']++;
                }else{
                        echo "<h1>Correct Guess! Well done.</h1>";
                        echo "<h2>It took you " . $_SESSION['counter'] . " guesses.";
                        echo "<p><a href=\"jellybean.php\">Play again?</a></p>";
                        $_SESSION['r'] = null;
                        $_SESSION['counter'] = null;
                }
        }
}

function capacityForm(){
?>
<form method="post" action="<?=$_SERVER['php_self']?>">
<p><label for="capacity">Capacity?</label><input type="text" name="capacity"></p>
```

```
<p><button type="submit" name="submit" value="Start Game">Stare Game</button></p>
</form>
<?
}
function guess(){
?>
<form method="post" action="<?=$_SERVER['php_self']?>">
<p><label for="guess">Guess?</label><input type="text" name="guess"></p>
<p><button type="submit" name="submit" value="Guess">Guess</button></p>
</form>
<?
}
function checkGuess($val){
        if($val==""){
                $error[] = "You did not enter a value.";
        }
        if(!is_numeric($val)){
                $error[] = "The value you entered was not a number.";
        }
        if($error){
                foreach($error as $v){
                        echo "<h2>".$v."</h2>";
                }
                echo "<h3>Try again.</h3>";
                guess();
                exit();
        }

}
?>
</body>
</html>
```