```
/*
* Programmer: Chad Philip Johnson
* Date Created: Wednesday, October 03rd, 2012
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*
* Description:
* Assistant.class provides a few features that an incredibly
* basic assistant application would have. It offers the
* following text-based tools and games: a gas mileage
* calculator, a to-do list composer, a grade calculator, a
* number guessing game, and the classic grade-school game of
* Hangman.
*/
import java.util.*;
/**
    * Assistant.class provides a few features that an incredibly
    * basic assistant application would have. It offers the
    * following text-based tools and games: a gas mileage
    * calculator, a to-do list composer, a grade calculator, a
    * number guessing game, and the classic grade-school game of
    * Hangman.
    *
    * @author Chad Philip Johnson
    * @version 1.0
    */
public class Assistant {
CinReader driverKeyboard;
Random rand;
// Number of different joke categories; increase this value for each new joke category added
static final int NUMBER_OF_JOKE_CATEGORIES = 3;
// Max number of test scores allowed for the grade calculator
static final int MAX_NUMBER_OF_TESTS = 20;
// Max number of tries when playing the number guessing game
static final int NUMBER_GUESS_MAX_TRIES = 10;
// Max number of tries when playing Hangman
static final int HANGMAN_MAX_TRIES = 10;
/**
    * Default constructor:
    * Instantiate CinReader.class and Random.class and associate them with the current instance of Assistant.class
    */
Assistant() {
// Instantiate CinReader.class and associate it with the current instance of Assistant.class this.driverKeyboard = new CinReader();
```

```
// Instantiate Random.class and associate it with the current instance of Assistant.class
this.rand = new Random();
}
/**
    * Print a random joke from a number of categories
    */
public void randomJoke() {
    // Select a joke category randomly
    int intSelectJokeCategory = ( rand.nextInt( 1000 ) % NUMBER_OF_JOKE_CATEGORIES );
    String strCurrentJoke = "";
    switch( intSelectJokeCategory ) {
        // Random jokes
        case 0:
            strCurrentJoke = getARandomStupidJoke();
            break;
            // Dennis Miller Monday Night Football quotes
            case 1:
                strCurrentJoke = getADennisMillerMNFQuote() + "\n--Dennis Miller, Monday Night Football";
                break;
            // Blind jokes
            case 2:
                strCurrentJoke = getABlindJoke();
                break;
            // Default is random jokes
            default:
                strCurrentJoke = getARandomStupidJoke();
    }
    System.out.print( strCurrentJoke + "\n\n" );
}
/**
    * Calculate miles per gallon based on user input
    */
public void mileageCalculator() {
    // Continue subroutine set to true by default
    boolean blnContinue = true;
    double dblMilesDriven, dblGallonsUsed;
    System.out.print( "\nWelcome to the Mileage Calculator!\n\n" );
```

    }
    ```
// Continue subroutine until user decides to exit to the main menu while( blnContinue ) \{
// Continue user input until a valid number is received (must be zero or greater)
while( true ) \{
System.out.print( "How many miles did you drive? " ); dblMilesDriven = driverKeyboard.readDouble();
if( dblMilesDriven < 0 ) \{
// Print error message and restart the loop
System.out.println( "This number cannot be negative. Please re-enter."); continue;
\} else \{
// Exit loop when a valid entry has been received break;
\};
// Continue user input until a valid number is received (must be greater than zero) while( true ) \{

System.out.print( "How many gallons of gas did your car use to go that distance? " ); dblGallonsUsed = driverKeyboard.readDouble();
if( dblGallonsUsed <= 0 ) \{
// Print error message and restart the loop
System.out.println( "This number cannot be negative or zero. Please re-enter.");
continue;
\} else \{
// Exit loop when a valid entry has been received
break;
\}
\}
// Compute and print mpg
System.out.printf( "You car averaged \%.2f miles per gallon.\n\n", (float) (dblMilesDriven / dblGallonsUsed) );
// Prompt user to do another calculation
System.out.println( "Would you like to do another gas mileage calculation? (y/n)" );
// Restart subroutine if true; exit to main menu if false
blnContinue = continueSubroutine();
```

    }
    ```
    }
}
}
/**
/**
    * Create a simple to-do list from user input
    * Create a simple to-do list from user input
    */
    */
public void toDoList() {
public void toDoList() {
    // Continue subroutine set to true by default
    // Continue subroutine set to true by default
    boolean blnContinue = true;
    boolean blnContinue = true;
    int intCounter = 0;
    int intCounter = 0;
    LinkedList<String> myToDoList = new LinkedList<String>();
    LinkedList<String> myToDoList = new LinkedList<String>();
    System.out.print( "\nWelcome to the To-Do List Organizer!\n\n" );
    System.out.print( "\nWelcome to the To-Do List Organizer!\n\n" );
    // Continue subroutine until user decides to exit to the main menu
    // Continue subroutine until user decides to exit to the main menu
    while( blnContinue ) {
    while( blnContinue ) {
        // Accept a string as input from the user
        // Accept a string as input from the user
        System.out.println( "Please add an entry to your To-Do List:" );
        System.out.println( "Please add an entry to your To-Do List:" );
        myToDoList.add( driverKeyboard.readString() );
        myToDoList.add( driverKeyboard.readString() );
        // Display current to-do list
        // Display current to-do list
        showToDoList( myToDoList );
        showToDoList( myToDoList );
        // Prompt user to make more entires
        // Prompt user to make more entires
        System.out.println( "Would you like to make another entry? (y/n)" );
        System.out.println( "Would you like to make another entry? (y/n)" );
        blnContinue = continueSubroutine();
        blnContinue = continueSubroutine();
    }
    }
    // Print final to-do list
    // Print final to-do list
    showToDoList( myToDoList );
    showToDoList( myToDoList );
    // Warn user that the data is about to be lost
    // Warn user that the data is about to be lost
    System.out.println( "You might want to write this list down because it's about to disappear!" );
    System.out.println( "You might want to write this list down because it's about to disappear!" );
    // Wait till user presses enter
    // Wait till user presses enter
    System.out.println( "Please press [Enter] to continue..." );
    System.out.println( "Please press [Enter] to continue..." );
    Scanner keyboard = new Scanner( System.in );
    Scanner keyboard = new Scanner( System.in );
    keyboard.nextLine();
    keyboard.nextLine();
}
}
/**
/**
    * Calculate an average grade from a user specified number of test scores
    * Calculate an average grade from a user specified number of test scores
    */
    */
public void gradeCalculator()
```

public void gradeCalculator()

```
```

// Continue subroutine set to true by default

```
// Continue subroutine set to true by default
boolean blnContinue = true;
boolean blnContinue = true;
int intNumberOfTests;
int intNumberOfTests;
int intNumberOfPointsEarned, intMaxExamPoints;
int intNumberOfPointsEarned, intMaxExamPoints;
System.out.print( "\nWelcome to the Grade Calculator!\n\n" );
System.out.print( "\nWelcome to the Grade Calculator!\n\n" );
// Continue subroutine until user decides to exit to the main menu
// Continue subroutine until user decides to exit to the main menu
while( blnContinue ) {
while( blnContinue ) {
    // Reset values each time user decides to calculate a new average score
    // Reset values each time user decides to calculate a new average score
    intNumberOfPointsEarned = 0;
    intNumberOfPointsEarned = 0;
    intMaxExamPoints = 0;
    intMaxExamPoints = 0;
    // Continue user input until a valid number is received (must be greater than zero)
    // Continue user input until a valid number is received (must be greater than zero)
    while( true ) {
    while( true ) {
    System.out.print( "How many tests would you like to input to find your current average? " );
    System.out.print( "How many tests would you like to input to find your current average? " );
    intNumberOfTests = driverKeyboard.readInt();
    intNumberOfTests = driverKeyboard.readInt();
    if( intNumberOfTests > 0 && intNumberOfTests <= MAX_NUMBER_OF_TESTS ) {
    if( intNumberOfTests > 0 && intNumberOfTests <= MAX_NUMBER_OF_TESTS ) {
    // Exit loop when a valid value has been received
    // Exit loop when a valid value has been received
    break;
    break;
    } else if( intNumberOfTests > MAX_NUMBER_OF_TESTS ) {
    } else if( intNumberOfTests > MAX_NUMBER_OF_TESTS ) {
        // Display warning message and restart loop if the number of tests to be entered exceeds the boundaries of
        // Display warning message and restart loop if the number of tests to be entered exceeds the boundaries of
        the program
        the program
        System.out.printf( "I'm sorry, you can only input a maximum of %d different test scores.\n",
        System.out.printf( "I'm sorry, you can only input a maximum of %d different test scores.\n",
        MAX_NUMBER_OF_TESTS );
        MAX_NUMBER_OF_TESTS );
        continue;
        continue;
    } else if( intNumberOfTests <= 0 ) {
    } else if( intNumberOfTests <= 0 ) {
        // Display warning message and restart loop if an invalid value has been received
        // Display warning message and restart loop if an invalid value has been received
        System.out.println( "I'm sorry, the number of tests cannot be negative or zero." );
        System.out.println( "I'm sorry, the number of tests cannot be negative or zero." );
        continue;
        continue;
    }
    }
    }
    }
    for( int i = 1; i <= intNumberOfTests; i++ ) {
    for( int i = 1; i <= intNumberOfTests; i++ ) {
        int intTempPointsEarned, intTempMaxExamPoints;
        int intTempPointsEarned, intTempMaxExamPoints;
        // Continue user input until a valid number is received (must be greater than or equal to zero)
        // Continue user input until a valid number is received (must be greater than or equal to zero)
        while( true ) {
        while( true ) {
            System.out.printf( "Please input the points earned for exam #%d: ", i );
            System.out.printf( "Please input the points earned for exam #%d: ", i );
            intTempPointsEarned = driverKeyboard.readInt();
            intTempPointsEarned = driverKeyboard.readInt();
            if( intTempPointsEarned >= 0 ) {
```

            if( intTempPointsEarned >= 0 ) {
    ```
// Exit loop when a valid value has been received break;
\} else \{
// Display warning message and restart loop if an invalid value has been received System. out.println( "I'm sorry (not really, you moron), the points earned cannot be negative."); continue;
\}
\}
// Tally the total points earned with each pass
intNumberOfPointsEarned \(+=\) intTempPointsEarned;
// Continue user input until a valid number is received (must be greater than or equal to zero)
while( true ) \{
System.out.printf( "Please input the maximum points for exam \#\%d: ", i );
intTempMaxExamPoints = driverKeyboard.readInt();
if( intTempMaxExamPoints >= 0 ) \{
// Exit loop when a valid value has been received
break;
\} else \{
// Display warning message and restart loop if an invalid value has been received System.out.println( "You idiot, the points earned cannot be negative.");
\}
\}
// Tally the total points available with each pass
intMaxExamPoints += intTempMaxExamPoints;
\}
// Perform average calculation, print result and offer an encouraging message
System.out.printf( "\nYou earned \%d out of \%d total points which represents an average of \%.2f\%\%. Good job! \n\n", intNumberOfPointsEarned, intMaxExamPoints, (((float) intNumberOfPointsEarned / (float) intMaxExamPoints ) * 100.0f) );
// Prompt user to perform another grade calculation
System.out.println( "Would you like to calculate another average? (y/n)" );
blnContinue = continueSubroutine();
\}
System.out.println( "Thanks for using the Grade Calculator!" );
```

/**

```
/**
    * Play a number guessing game
    * Play a number guessing game
    */
    */
public void numberGame() {
public void numberGame() {
    // Continue subroutine set to true by default
    // Continue subroutine set to true by default
    boolean blnContinue = true;
    boolean blnContinue = true;
    int intUserInput;
    int intUserInput;
    int intSecretNumber;
    int intSecretNumber;
    System.out.print("\n\nWelcome to the Number Guessing Game!\n\n");
    System.out.print("\n\nWelcome to the Number Guessing Game!\n\n");
    System.out.println("You must guess the correct number between 1 and 100 in ten tries.");
    System.out.println("You must guess the correct number between 1 and 100 in ten tries.");
    // Continue subroutine until user decides to exit to the main menu
    // Continue subroutine until user decides to exit to the main menu
while( blnContinue ) {
while( blnContinue ) {
    // Find a random number between 1 and 100
    // Find a random number between 1 and 100
    intSecretNumber = rand.nextInt(100) + 1;
    intSecretNumber = rand.nextInt(100) + 1;
    System.out.print( "\nThe secret number is between 1 and 100. What do you think it is? " );
    System.out.print( "\nThe secret number is between 1 and 100. What do you think it is? " );
    // Continue game until max tries have all been used up
    // Continue game until max tries have all been used up
    for( int i = 1; i <= NUMBER_GUESS_MAX_TRIES; i++ ) {
    for( int i = 1; i <= NUMBER_GUESS_MAX_TRIES; i++ ) {
        // Continue user input until a valid number is received (must be between 1 and 100)
        // Continue user input until a valid number is received (must be between 1 and 100)
        while( true ) {
        while( true ) {
            intUserInput = driverKeyboard.readInt();
            intUserInput = driverKeyboard.readInt();
            if( intUserInput > 100 || intUserInput <= 0 ) {
            if( intUserInput > 100 || intUserInput <= 0 ) {
                System.out.println( "Oops! The number must be between 1 and 100. Try again!" );
                System.out.println( "Oops! The number must be between 1 and 100. Try again!" );
                continue;
                continue;
            } else {
            } else {
                // Exit loop when a valid value has been received
                // Exit loop when a valid value has been received
                break;
                break;
            }
            }
        }
        }
        // If guessed number matches secret number, print victory message and exit game loop
        // If guessed number matches secret number, print victory message and exit game loop
        if( intUserInput == intSecretNumber ) {
        if( intUserInput == intSecretNumber ) {
            System.out.printf( "\nCongratulations! You win! You found the secret number %d in %d tries!\n\n",
            System.out.printf( "\nCongratulations! You win! You found the secret number %d in %d tries!\n\n",
            intSecretNumber, i );
            intSecretNumber, i );
            break;
            break;
        } else {
```

        } else {
    ```
            // If guessed number is too high, print "too high" message
```

if( intUserInput > intSecretNumber ) {
System.out.printf( "\nThe number %d is too high! Guess lower!\n", intUserInput );
// If guessed number is too low, print "too low" message
} else if( intUserInput < intSecretNumber ) {
System.out.printf( "\nThe number %d is too low! Guess higher!", intUserInput );
}
// Print the number of tries remaining
if( (NUMBER_GUESS_MAX_TRIES - i) > 1 ) {
System.out.printf( "\nYou have only %d tries left!\n", (NUMBER_GUESS_MAX_TRIES - i) );
} else if( (NUMBER_GUESS_MAX_TRIES - i) == 1 ) {
System.out.println( "\nYou have only 1 try left!\n");
} else {
System.out.printf( "\nOh no! You're all out of tries! The secret number was %d.\n", (
NUMBER_GUESS_MAX_TRIES - i), intSecretNumber );
}
}
}
// Print game over message and prompt user to play again
System.out.println("Game Over. Would you like to play again? (y/n)");
blnContinue = continueSubroutine();
}
System.out.println( "Thanks for playing the number guessing game!" );
}
/**
* Play a game of Hangman
*/
public void hangmanGame() {
// Continue subroutine set to true by default
boolean blnContinue = true;
char chrUserInput;
System.out.print("\n\nWelcome to Hangman!\n");
// Continue subroutine until user decides to exit to the main menu
while( blnContinue ) {

```
// Retrieve random word for the current game
char[] chrCurrentWord = getAWordForHangman().toCharArray();
// Create a "blank" word of the same length as the secret word
char[] chrEmptyWord = new char[chrCurrentWord.length];
// Blank out the "blank" word with underscores
for( int i = 0; i < chrCurrentWord.length; i++ ) {
    chrEmptyWord[i] = '_';
}
System.out.print("\nGuess the secret word in ten tries or less!\n");
int intNumberOfTries = 0;
boolean blnLetterExists;
while( true ) {
// Guessed letter does not exist, by default
blnLetterExists = false;
// Show player's current progress with each pass
hangmanShowPlayerProgress( chrEmptyWord, chrCurrentWord.length, intNumberOfTries );
    // Continue user input until a valid number is received (must be between a-z or A-Z)
    while( true ) {
        System.out.print( "What letter would you like to guess? ");
        chrUserInput = driverKeyboard.readChar();
        // Valid input of ASCII set a-z
        if( chrUserInput >= 97 && chrUserInput <= 122 ) {
            break;
        // Valid input of ASCII set A-Z, convert to lowercase
        } else if( chrUserInput >= 65 && chrUserInput <= 90 ) {
            chrUserInput += 32;
            break;
        // Invalid character: must be a letter
        } else {
                System.out.printf( "The character %c is invalid. Please retry.\n", chrUserInput );
                continue;
        }
    }
    // Compare guessed letter with all letters in secret word
    for( int i = 0; i < chrCurrentWord.length; i++ ) {
```

```
    // If the guessed letter matches any letters of the secret word, update the "blank" word with that character
```

    // If the guessed letter matches any letters of the secret word, update the "blank" word with that character
    at the same array position
    at the same array position
    // (test fails if the same correct letter is used more than once)
    // (test fails if the same correct letter is used more than once)
    if( chrCurrentWord[i] == chrUserInput && chrEmptyWord[i] != chrUserInput ) {
    if( chrCurrentWord[i] == chrUserInput && chrEmptyWord[i] != chrUserInput ) {
        // Assign character value to current position of "blank" word
        // Assign character value to current position of "blank" word
        chrEmptyWord[i] = chrUserInput;
        chrEmptyWord[i] = chrUserInput;
        // Set flag that the user has guessed a correct letter
        // Set flag that the user has guessed a correct letter
        blnLetterExists = true;
        blnLetterExists = true;
    }
    }
    }
}
// If the user has not guessed correctly increment the total number of attempts by one
// If the user has not guessed correctly increment the total number of attempts by one
if( blnLetterExists == false ) {
if( blnLetterExists == false ) {
intNumberOfTries++;
intNumberOfTries++;
}
}
// Print victory message if the user has successfully guessed the word
// Print victory message if the user has successfully guessed the word
if( Arrays.equals( chrCurrentWord, chrEmptyWord ) ) {
if( Arrays.equals( chrCurrentWord, chrEmptyWord ) ) {
System.out.printf( "Congratulations, you guessed the correct word and had %d tries remaining!\n\n", (
System.out.printf( "Congratulations, you guessed the correct word and had %d tries remaining!\n\n", (
HANGMAN_MAX_TRIES - intNumberOfTries) );
HANGMAN_MAX_TRIES - intNumberOfTries) );
hangmanShowPlayerProgress( chrEmptyWord, chrCurrentWord.length, intNumberOfTries );
hangmanShowPlayerProgress( chrEmptyWord, chrCurrentWord.length, intNumberOfTries );
System.out.printf( "The secret word was \"%s\".\n\n", new String( chrCurrentWord ) );
System.out.printf( "The secret word was \"%s\".\n\n", new String( chrCurrentWord ) );
break;
break;
}
}
// Print "successful" message when a letter has been guessed; print the number of tries left
// Print "successful" message when a letter has been guessed; print the number of tries left
if( blnLetterExists == true ) {
if( blnLetterExists == true ) {
System.out.printf( "Way to go! The letter \"%c\" appears in the secret word.\n", chrUserInput );
System.out.printf( "Way to go! The letter \"%c\" appears in the secret word.\n", chrUserInput );
if( (HANGMAN_MAX_TRIES - intNumberOfTries) > 1 ) {
if( (HANGMAN_MAX_TRIES - intNumberOfTries) > 1 ) {
System.out.p\overline{rintf( "You still have %d tries left!\n", (HANGMAN_MAX_TRIES - intNumberOfTries) );}
System.out.p\overline{rintf( "You still have %d tries left!\n", (HANGMAN_MAX_TRIES - intNumberOfTries) );}
} else {
} else {
System.out.println( "Oh no! You have only one try left!" );
System.out.println( "Oh no! You have only one try left!" );
}
}
}
}
// Print "unsuccessful" message when a letter has not been guessed; increment the number of attempts and print
// Print "unsuccessful" message when a letter has not been guessed; increment the number of attempts and print
the number of tries left
the number of tries left
if( blnLetterExists == false ) {
if( blnLetterExists == false ) {
if( (HANGMAN_MAX_TRIES - intNumberOfTries) > 1 ) {
if( (HANGMAN_MAX_TRIES - intNumberOfTries) > 1 ) {
System.out.printf( "No luck on that one. You have %d tries left!\n", (HANGMAN_MAX_TRIES -

```
    System.out.printf( "No luck on that one. You have %d tries left!\n", (HANGMAN_MAX_TRIES -
```

```
        intNumberOfTries) );
            } else if( (HANGMAN_MAX_TRIES - intNumberOfTries) == 1 ) {
                System.out.println(-"Now you've done it... You have only one try left!" );
            // Exit game loop when the number of tries reaches zero
            } else {
                System.out.println( "You lose! Game Over!");
                    hangmanShowPlayerProgress( chrEmptyWord, chrCurrentWord.length, intNumberOfTries );
                    System.out.printf( "The secret word was \"%s\".\n\n", new String( chrCurrentWord ) );
                    break;
                    }
            }
        }
        // Prompt user to play again
        System.out.println( "Would you like to play again? (y/n)" );
        blnContinue = continueSubroutine();
    }
}
/**
    * Return a joke from the list of random stupid jokes
    */
public String getARandomStupidJoke() {
```


## String[] randomStupidJokes = new String[] \{

```
"I have the power to channel my imagination into ever-soaring levels of
"I assume full responsibility for my actions, except the ones that are someone\nelse's fault." ,
"I no longer need to punish, deceive, or compromise myself. Unless, of course, \nI want to stay employed." ,
"Having control over myself is nearly as good as having control over others.",
"My intuition nearly makes up for my lack of good judgment.",
"I honor my personality flaws, for without them I would have no personality at \nall.",
"I am grateful that I am not as judgmental as all those censorious, \nself-righteous people around me.",
"I need not suffer in silence while I can still moan, whimper, and complain.",
"As I learn the innermost secrets of the people around me, they reward me in \nmany ways to keep me quiet.",
"When someone hurts me, forgiveness is cheaper than a lawsuit. But not nearly\nas gratifying." ,
"The first step is to say nice things about myself. The second, to do nice\nthings for myself. The third, to find someone to buy me nice things.",
"As I learn to trust the universe, I no longer need to carry a gun.",
"I am at one with my duality.",
"Blessed are the flexible, for they can tie themselves into knots." ,
"Only a lack of imagination saves me from immobilizing myself with imaginary \(\operatorname{nffears.",~}\)
"Does my quiet self-pity get to you or should I move up to incessant nagging?",
"Today I will gladly share my experience and advice, for there are no sweeter\nwords than \"I told you so.\"",
```



571

573

```
    "False hope is nicer than no hope at all.",
```

    "False hope is nicer than no hope at all.",
    "A good scapegoat is nearly as welcome as a solution to the problem.",
    "A good scapegoat is nearly as welcome as a solution to the problem.",
    "Just for today, I will not sit in my living room all day watching TV. Instead\nI will move my TV into the bedroom." ,
    "Just for today, I will not sit in my living room all day watching TV. Instead\nI will move my TV into the bedroom." ,
    "Who can I blame for my own problems? Give me just a minute... I'll find someone.",
    "Who can I blame for my own problems? Give me just a minute... I'll find someone.",
    "The complete lack of evidence is the surest sign that the conspiracy is working.",
    "The complete lack of evidence is the surest sign that the conspiracy is working.",
    "I am learning that criticism is not nearly as effective as sabotage.",
    "I am learning that criticism is not nearly as effective as sabotage.",
    "Becoming aware of my character defects leads me to the next step - blaming my\nparents.",
    "Becoming aware of my character defects leads me to the next step - blaming my\nparents.",
    "I will find humor in my everyday life by looking for people I can laugh at.",
    "I will find humor in my everyday life by looking for people I can laugh at.",
    "The next time the universe knocks on my door, I will pretend I am not home.",
    "The next time the universe knocks on my door, I will pretend I am not home.",
    "To have a successful relationship I must learn to make it look like I'm giving\nas much as I'm getting." ,
    "To have a successful relationship I must learn to make it look like I'm giving\nas much as I'm getting." ,
    "I am willing to make the mistakes if someone else is willing to learn from them."
    "I am willing to make the mistakes if someone else is willing to learn from them."
    };
    };
    // Return a random string from the String array
    // Return a random string from the String array
    return randomStupidJokes[ rand.nextInt( randomStupidJokes.length ) ];
    return randomStupidJokes[ rand.nextInt( randomStupidJokes.length ) ];
    }
}
/**
/**
* Return a quote from the list of Dennis Miller Monday Night Football sayings
* Return a quote from the list of Dennis Miller Monday Night Football sayings
*/
*/
public String getADennisMillerMNFQuote()
public String getADennisMillerMNFQuote()
String[] dennisMillerMNFQuotes = new String[] {
String[] dennisMillerMNFQuotes = new String[] {
"Of *course* he needs to renegotiate his salary -- the guy buys more snow than\nSeward did when he bought Alaska
"Of *course* he needs to renegotiate his salary -- the guy buys more snow than\nSeward did when he bought Alaska
from the Russians.",
from the Russians.",
"I haven't seen anyone rely on the ground game this much since the battle of\nVerdun." ,
"I haven't seen anyone rely on the ground game this much since the battle of\nVerdun." ,
"The quarterback's spending so much time behind the center that he may\njeopardize his right to lead a Boy Scout
"The quarterback's spending so much time behind the center that he may\njeopardize his right to lead a Boy Scout
troop.",
troop.",
"I've seen women pee standing up with better aim.",
"I've seen women pee standing up with better aim.",
"Somebody call Janet Reno -- I think I just saw Donato dragging Doug Flutie\ninto a locker room closet!" ,
"Somebody call Janet Reno -- I think I just saw Donato dragging Doug Flutie\ninto a locker room closet!" ,
"That field goal attempt was so far to the left it nearly decapitated Lyndon\nLaRouche." ,
"That field goal attempt was so far to the left it nearly decapitated Lyndon\nLaRouche." ,
"I haven't seen someone so overmatched since Mike Tyson tried to recite the\nalphabet." ,
"I haven't seen someone so overmatched since Mike Tyson tried to recite the\nalphabet." ,
"Hey, Cunningham -- Andy Warhol called. You're at 14:55 and we're tickin'\nbig-time here, Chachi." ,
"Hey, Cunningham -- Andy Warhol called. You're at 14:55 and we're tickin'\nbig-time here, Chachi." ,
"He lasted about as long as the dessert tray at Rosie O'Donnell's house.",
"He lasted about as long as the dessert tray at Rosie O'Donnell's house.",
"Hey Deion, Bubbelah -- maybe you'd better pay a little less attention to\nthose unfairly Draconian salary caps that
"Hey Deion, Bubbelah -- maybe you'd better pay a little less attention to\nthose unfairly Draconian salary caps that
only allowed you to acquire four of\nthe five remaining 1932 Aston Martins still in road-worthy condition
only allowed you to acquire four of\nthe five remaining 1932 Aston Martins still in road-worthy condition
after\nyou'd paid for life's little necessities like hookers and weed, get your\nmedulla oblongata out of your
after\nyou'd paid for life's little necessities like hookers and weed, get your\nmedulla oblongata out of your
duodenum for a few milliseconds, and make a\ntackle or two, okay, Babe?",
duodenum for a few milliseconds, and make a\ntackle or two, okay, Babe?",
"When the hell is Warren Moon going to retire? I mean, this guy is older than\nthe cuneiform in Nebuchadnezzar's
"When the hell is Warren Moon going to retire? I mean, this guy is older than\nthe cuneiform in Nebuchadnezzar's
tomb.",
tomb.",
"That punt was higher than Marion Berry on a fact-finding tour of Cartagena." ,
"That punt was higher than Marion Berry on a fact-finding tour of Cartagena." ,
"Nervous? He's tighter than Pat Buchanan's sphincter muscle at a 4th of July\nsoiree on Fire Island.",
"Nervous? He's tighter than Pat Buchanan's sphincter muscle at a 4th of July\nsoiree on Fire Island.",
"Warner had more hands in his face than an OB-GYN delivering Vishnu's\ntriplets!",
"Warner had more hands in his face than an OB-GYN delivering Vishnu's\ntriplets!",
};
};
// Return a random string from the String array
// Return a random string from the String array
return dennisMillerMNFQuotes[ rand.nextInt( dennisMillerMNFQuotes.length ) ];

```
    return dennisMillerMNFQuotes[ rand.nextInt( dennisMillerMNFQuotes.length ) ];
```

\}

## String[] blindJokes = new String[] \{

```
"How do you discipline a blind kid? You move the furniture around.",
"A blind man walks into a store with his seeing eye dog. All of a sudden, he \npicks up the leash and begins swinging the dog over his head. The manager runs \nup to the man and asks, \"What are you doing?!! \" The blind man replies, \n\"Just looking around. \(\backslash\) " ",
"There are 2 blonds sitting on a porch in Kansas looking at the moon. One\nblond says to the other, \"which do you think is closer? The moon or Texas? \"\nThe other blond says \"Duh! Can you see Texas? \"",
"Why don't blind people skydive? It scares the heck out of the dog.",
"Marriage is love. Love is blind. Therefore, marriage is an institution for\nthe blind.",
"What do you call a blind rabbit sitting on your face? An unsightly facial\nhare!",
"Remember: Pirates with two eye patches are not twice as deadly.",
"Why don't blind people ever watch where they're going?",
"Why is it that the blind leading the blind always have so many places to go?",
"Blind people are fun to trip.",
"Blind people make wonderful moving targets, especially for paintball practice.",
"What did one blind man say to the other blind man? \"It sure is dark\ntoday. \({ }^{\text {" }}\) To which, the other blind man replied, \"Yep... sure is...\"",
"Don't say \"It's such a beautiful day today!\" to a blind person. It is \ninconsiderate and cruel. Instead do the right thing and say, \"It isn't a \nvery nice day today. \"",
"Blind people know that life isn't fair... much more than most.",
"Blind people are cowards. I've never met a blind man that could look me\nin the eyes." ,
"Yes, sunglasses are an acceptable gift to give a blind person on his \(n\) nbirthday--the darker the shades the better." ,
"Blind people are allowed to run with scissors.",
"Yes, blind people like blind jokes too, but only when they're wearing\nsunglasses.",
"Blind people can't read these jokes because they aren't written in\nbraille.",
\};
// Return a random string from the String array
return blindJokes[ rand.nextInt( blindJokes.length ) ];
\}
/**
* Return a random word for a game of Hangman
*/
private String getAWordForHangman() \{
String[] wordsForHangman = new String[] \{
"kindergarten",
"physics",
"calculus",
"computer",
"chemistry",
"biology",
```

```
/**
```

/**
* Return a joke from the list of blind jokes
* Return a joke from the list of blind jokes
*/
*/
public String getABlindJoke() {

```
public String getABlindJoke() {
```

    "headache",
    "programming",
    "compost",
    "recycle",
    "prius",
    "solar",
    "environmentalist",
    "battery",
    "lead",
    "yuppy",
    "object",
    "orient",
    "beer",
    "confession",
    "elementary",
    "electricity",
    "magnetism",
    "potential",
    "energy",
    "field",
    "organic",
    "potato",
    "tomato",
    "tortilla",
    "quesadilla",
    "enchilada",
    "burrito",
    "salsa",
    "frijoles",
    "spanish",
    "tequila",
    "wine",
    "differential",
    "equation",
    "architecture",
    "agression",
    "foreclosure",
    "dream",
    "tiger",
    "zebra",
    "africa",
    "tostada",
    "finish",
    };
// Return a random string from the String array
return wordsForHangman[ rand.nextInt( wordsForHangman.length ) ];
}

```
```

/**

```
/**
    * Prompt user whether he/she would like to continue executing a subroutine
    * Prompt user whether he/she would like to continue executing a subroutine
    */
    */
private boolean continueSubroutine() {
private boolean continueSubroutine() {
    // Prompt user for character input
    char charUserInput = driverKeyboard.readChar();
    // Resume subroutine if input does not equal 'n' or 'N'
    if( !( charUserInput == 'n' || charUserInput =='N' ) ) {
        return true;
    // Quit subroutine if input equals 'n' or 'N'
    } else {
        return false;
    }
}
/**
    * Display the current to-do list to the user
    */
private void showToDoList( LinkedList<String> myToDoList ) {
        System.out.print( "\nHere is your current To-Do List:\n" );
        int i = 1;
        // Display current to-do list with a leading number
        for( String readThrough : myToDoList ) {
            System.out.printf( "[%d] %s\n", i, readThrough );
            i++;
        }
        System.out.println();
    }
    /**
        * Show player progress (the correct guesses) in a game of hangman
        */
    private void hangmanShowPlayerProgress( char[] chrEmptyWord, int intCurrentWordLength, int intCurrentTry ) {
        if( HANGMAN_MAX_TRIES == 10 ) {
            switch( intCurrentTry ) {
                case 0:
            System.out.println( " *------------* " );
            System.out.println( " | " );
            System.out.println( " | ");
```

```
System.out.println(
                                    );
    System.out.println( " " );
    system.out.println( " | ");
    System.out.println( " | ");
    System.out.println( "---------------------" );
    System.out.print("\n\t");
    break;
```

case 1:
System.out.println( " *------------* " );
System.out.println( " | ");
System.out.println( " | " );
System.out.println( " | ");
System.out.println( " | ");
System.out.println( " | ");
System.out.println( " ");
System.out.println( "--------------------" );
System.out.print("\n\t");
break;
case 2:
System.out.println( " *------------* " );
System.out.println( " | ");
System.out.println( " | 0 " );
System.out.println( " | );
System.out.println( " | " );
System.out.println( " " );
System.out.println( " | " );
System.out.println( "--------------------" );
System.out.print("\n\t");
break;
case 3:
System.out.println( " *------------* " );
System.out.println( " | " );
System.out.println( " 0 ");
system.out.println( " | " );
System.out.println( " | ");
System.out.println( " | " );
System.out.println( " | " );
System.out.println( "-------------------" );
System.out.print("\n\t");
break;
case 4:
System.out.println( " *------------* " );
System.out.println( " | " );
System.out.println( " 0 " );
System.out.println(
System.out.println(

```
System.out.println(
                                    );
System.out.println(
);
System.out.println( --------------------") );
System.out.print("\n\t");
break;
```

case 5:
System.out.println( " *------------* " );
System.out.println( " | ");
System.out.println( " 0 " );
System.out.println( " - |- ");
System.out.println( " " );
System.out.println( " " ");
System.out.println( " | " );
System.out.println( "---------------------" );
System.out.print("\n\t");
break;
case 6:
System.out.println( " *------------* " );
System.out.println( " | " );
System.out.println( " | 0 " );
System.out.println( " | -|- ");
System.out.println( " | " );
System.out.println( " " );
System.out.println( " | " );
System.out.println( "--------------------" );
System.out.print("\n\t");
break;
case 7:
System.out.println( " *------------* " );
System.out.println( " | " );
System.out.println( " | 0 ");
System.out.println( " | -|- " );
System.out.println( " | ");
System.out.println( " | / " );
System.out.println( " " ");
System.out.println( "--------------------" );
System.out.print("\n\t");
break;
case 8:
System.out.println( " *------------* " );
System.out.println( " | "
System.out.println( " 0 " );
System.out.println( " | -|- " );
System.out.println(
System.out.println(
System.out.println(

