Name ______Period____

1. The WordScrambler class below prompts the user for a word using a Scanner. The program then selects a random letter in the word and scrambles the word by selecting the random letter and all the letters that follow and placing them in front, followed by the letters that come before the random letter. The final word is printed to the console in all caps.

Consider the following examples.

User input	Random Letter	Output
Giraffe	а	AFFEGIR
School	I	LSCH00
Timberline	t	TIMBERLINE
Halloween	e	ENHALLOWE

Below is a summary of what the WordScrambler class does,

- Declares a Scanner object
- Prompts the user for a word
- Selects a random letter from the word
- Creates a scrambled word by selecting the letter and all the letters that follow and placing them in front, followed by the letters that come before the random letter
- Prints the random word to the console

Write the WordScrambler class below. You need not indicate the imports required of the Scanner object.

2. The Dice class below prompts the user for two integers between 4 (inclusive) and 12 (inclusive). The numbers provided correspond to the number of sides on a given die. The dice simulates the rolling of the dice by generating a random number for each die in the range of 1 through the number provided. The random numbers generated are then printed to the console. Along with whether the values on the die are the same.

Input for die 1	Input for die 2	Output
5	10	You rolled a 3 and a 10. false
4	6	You rolled a 4 and a 1. false
8	12	You rolled a 6 and a 6. true

Below is a summary of what the Dice class does,

- Declares a Scanner object
- Prompts the user for two integers
- Creates two random numbers based on the integers provided in the range of 1 (inclusive) up to the integer provided (inclusive)
- Prints the random numbers to the console, along with whether the values on the die are the same.

Write the Dice class below. You need not indicate the imports required of the Scanner object.

3. The GuessNum class below evaluates whether guesses a digit in a 3 digit number correctly. Consider the following examples,

Number	Guess	Output
123	2	True
345	6	False
301	1	True
900	9	True

Below is a summary of what the GuessNum class does,

- Creates a random integer from 100 to 999 (inclusive) and stores it in number
- Declares a Scanner object
- Prompts the user for an integer guess
- Evaluates whether the guessed integer is in the number and prints the result

Write the GuessNum class below. You may not use if statements in your solution.

<pre>public class GuessNum{</pre>	
<pre>public static void main(String args[]){</pre>	
}	
}	,
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