Errors to fix

1. MAJOR ERROR: When a Yahtzee is rolled, 50 points is added to lowerScore in the scorecard. Then 50 more points are added to lowerScore, which results in the addition of 100 points to the total and lower scores. (Fix: Delete one of the lines that says “lowerScore += YAHTZEE” from the Scorecard.java file.)
2. When the user enters a category, it is case-sensitive. For example, “Yahtzee” does not work as a category. Scorecard returns null, resulting in the category has already been scored error message.

<player starts turn and elects to score first roll>

Enter a category to score… <display category list>  
     
yahtzee

This category has already been scored. Choose a different category.

1. The scorecard is formatted incorrectly and illegible. (Fix: I created a printScorecard() method that can be used to format the scorecard properly, but I didn’t add it because it would change the BBT plan. Instead of printing the String representation of scorecard, the printScorecard() method should be called.)
2. If the array contains an invalid category “substring” (e.g., “four” instead of “fours”), Scorecard returns “null” resulting in the category has already been scored error message. This is incorrect. The Yahtzee class should print “Invalid category” and reprompt the user to enter a different category.   
     
   (Fix: Change the following call Arrays.toString(CATEGORIES).contains(category) in the logic that prompts the user for a category.)

<player starts turn and elects to score first roll>

Enter a category to score… <display category list>  
     
four

This category has already been scored. Choose a different category.

1. NoSuchElementException is thrown when user enters an invalid die value

Jessica current dice roll

[1] [5] [3] [3] [1]

Do you want to score the current roll or re-roll (Options: score or roll)? roll

Enter value(s) of dice to re-roll: 0

0is an invalid die value.

Enter a valid dice value between 1 - 6:

Exception in thread "main" java.util.NoSuchElementException

at java.base/java.util.Scanner.throwFor(Scanner.java:937)

at java.base/java.util.Scanner.next(Scanner.java:1594)

at java.base/java.util.Scanner.nextInt(Scanner.java:2258)

at java.base/java.util.Scanner.nextInt(Scanner.java:2212)

at Yahtzee.rollAgain(Yahtzee.java:295)

at Yahtzee.userInterface(Yahtzee.java:120)

at Yahtzee.main(Yahtzee.java:51)

Jessica current dice roll

[5] [6] [2] [5] [2]

Do you want to score the current roll or re-roll (Options: score or roll)? roll

Enter value(s) of dice to re-roll: 226

226is an invalid die value.

Enter a valid dice value between 1 - 6:

Exception in thread "main" java.util.NoSuchElementException

at java.base/java.util.Scanner.throwFor(Scanner.java:937)

at java.base/java.util.Scanner.next(Scanner.java:1594)

at java.base/java.util.Scanner.nextInt(Scanner.java:2258)

at java.base/java.util.Scanner.nextInt(Scanner.java:2212)

at Yahtzee.rollAgain(Yahtzee.java:295)

at Yahtzee.userInterface(Yahtzee.java:120)

at Yahtzee.main(Yahtzee.java:51)

1. Scorecard returns “null” when user tries to score a roll resulting in incorrect error message, “This category has already been scored. Choose a different category.” Scoring works when typed a second time. The program is reading in a “\n” instead of the desired category token.  
   (Fix: category = console.next() + console.nextLine(); )

Player: Trevon

Roll Number: 0

Total Score: 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Category Score

1

2

3

4

5

6

Upper Bonus

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Upper Score: 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Category Score

3 of a kind

4 of a kind

Small Straight

Large Straight

Full House

Yahtzee

Chance

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lower Score: 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Trevon current dice roll

[3] [4] [5] [2] [5]

Do you want to score the current roll or re-roll (Options: score or roll)? roll

Enter value(s) of dice to re-roll: 5

Trevon current dice roll:

[3] [4] [4] [2] [5]

Do you want to score the current roll or re-roll (Options: score or roll)? roll

Enter value(s) of dice to re-roll: 4

Trevon current dice roll:

[3] [4] [4] [2] [5]

Enter a category to score with no space after the last letter. Categories: ones, twos, threes, fours, fives, sixes, three of a kind, four of a kind, small straight, large straight, full house, Yahtzee, chance

small straight

This category has already been scored. Choose a different category.

small straight

Player: Trevon

Roll Number: 3

Total Score: 30

1. Roll number should be displayed before each roll instead of at the end of the turn. Our requirements section and BBTs are wrong because they do not meet customer specifications.  
     
   The first three highlighted lines should say:  
     
   “Trevon (Roll 1):”, “Trevon (Roll 2):“, “Trevon (Roll 3):”

Trevon current dice roll

[3] [4] [5] [2] [5]

Do you want to score the current roll or re-roll (Options: score or roll)? roll

Enter value(s) of dice to re-roll: 5

Trevon current dice roll:

[3] [4] [4] [2] [5]

Do you want to score the current roll or re-roll (Options: score or roll)? roll

Enter value(s) of dice to re-roll: 4

Trevon current dice roll:

[3] [4] [4] [2] [5]

Enter a category to score with no space after the last letter. Categories: ones, twos, threes, fours, fives, sixes, three of a kind, four of a kind, small straight, large straight, full house, Yahtzee, chance

small straight

This category has already been scored. Choose a different category.

small straight

Player: Trevon

Roll Number: 3

Total Score: 30

The last highlighted line should be deleted.