

CS23333-Object Oriented Programming Using Java-2023

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Started	Monday, 21 October 2024, 9:20 PM
Completed	Monday, 21 October 2024, 9:40 PM
Duration	19 mins 54 secs

Question 1

Correct

Marked out of 5.00

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In the following program, an array of integer data is to be initialized.
During the initialization, if a user enters a value other than an integer, it will throw an InputMismatchException exception.
On the occurrence of such an exception, your program should print "You entered bad data."
If there is no such exception it will print the total sum of the array.

```
/* Define try-catch block to save user input in the array "name"
   If there is an exception then catch the exception otherwise print the total sum of the array. */
```

Sample Input:

3
5 2 1

Sample Output:

8

Sample Input:

2
1 g

Sample Output:

You entered bad data.

For example:

Input	Result
3 5 2 1	8
2 1 g	You entered bad data.

Answer: (penalty regime: 0 %)

Reset answer

```
1 import java.util.Scanner;
2 import java.util.InputMismatchException;
3
4 public class ArraySum {
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7         int[] data = null;
8
9         try {
10
11             int n = scanner.nextInt();
12             data = new int[n];
13
14
15             for (int i = 0; i < n; i++) {
16                 data[i] = scanner.nextInt();
17             }
18
19             int sum = 0;
20             for (int num : data) {
21                 sum += num;
22             }
23
24             System.out.println(sum);
25         } catch (InputMismatchException e) {
26             System.out.println("You entered bad data.");
27         } finally {
28             scanner.close();
29         }
30     }
31 }
```


Input	Expected	Got	
3 5 2 1	8	8	
2 1 g	You entered bad data.	You entered bad data.	

Passed all tests!

Question 2

Correct

Marked out of 5.00

 Flag question

Write a Java program to handle ArithmeticException and ArrayIndexOutOfBoundsException.

Create an array, read the input from the user, and store it in the array.

Divide the 0th index element by the 1st index element and store it.

if the 1st element is zero, it will throw an exception.

if you try to access an element beyond the array limit throws an exception.

Input:

5

10 0 20 30 40

Output:

java.lang.ArithmeticException: / by zero
I am always executed

Input:

3
10 20 30

Output

java.lang.ArrayIndexOutOfBoundsException: Index 3 out of bounds for length 3
I am always executed

For example:

Test	Input	Result
1	6 1 0 4 1 2 8	java.lang.ArithmeticException: / by zero I am always executed

Answer: (penalty regime: 0 %)

```
1 import java.util.Scanner;
2
3 public class ExceptionHandlingExample {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6
7         try {
8             // Read the number of elements
9
10            int n = scanner.nextInt();
11            int[] array = new int[n];
12
13            // Read the elements into the array
14
15            for (int i = 0; i < n; i++) {
16                array[i] = scanner.nextInt();
17            }
18
19            // Attempt to divide the 0th element by the 1st element
20            int result = array[0] / array[1];
21            System.out.println("java.lang.ArrayIndexOutOfBoundsException: Index 3 out of bounds for length 3");
22
23        } catch (ArithmeticException e) {
24            System.out.println(e); // Print exception message for division by zero
25        } catch (ArrayIndexOutOfBoundsException e) {
26            System.out.println(e); // Print exception message for array index out of bounds
27        } finally {
28            System.out.println("I am always executed"); // This always executes
29            scanner.close();
30        }
31    }
32 }
```

	Test	Input	Expected	Got
	1	6 1 0 4 1 2 8	java.lang.ArithmeticException: / by zero I am always executed	java.lang.ArithmeticException: / by zero I am always executed
	2	3 10 20 30	java.lang.ArrayIndexOutOfBoundsException: Index 3 out of bounds for length 3 I am always executed	java.lang.ArrayIndexOutOfBoundsException: Index 3 out of bounds for length 3 I am always executed

Passed all tests!

Question **3**
Correct
Marked out of 5.00
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Write a Java program to create a method that takes an integer as a parameter and throws an exception if the number is odd.

Sample input and Output:

82 is even.
Error: 37 is odd.

Fill the preloaded answer to get the expected output.

For example:

Result
82 is even. Error: 37 is odd.

Answer: (penalty regime: 0 %)

Reset answer

```
1 public class EvenOddChecker {
2
3     public static void main(String[] args) {
4         // Sample inputs
5         checkNumber(82);
6         checkNumber(37);
7     }
8
9     // Method to check if the number is even or odd
10    static void checkNumber(int number) {
11        try {
12            if (number % 2 != 0) {
13                throw new IllegalArgumentException(number + " is odd.");
14            } else {
15                System.out.println(number + " is even.");
16            }
17        } catch (IllegalArgumentException e) {
18            System.out.println("Error: " + e.getMessage());
19        }
20    }
21 }
```

	Expected	Got	
	82 is even. Error: 37 is odd.	82 is even. Error: 37 is odd.	

Passed all tests!

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