

CS23333-Object Oriented Programming Using Java-2023

Dashboard / My courses / CS23333-OOPUJ-2023 / Lab-09-Exception Handling / Lab-09-Logic Building

Quiz navigation



Show one page at a time

Finish review

Status Finished Started Monday, 21 October 2024, 9:11 PM Completed Monday, 21 October 2024, 9:23 PM **Duration** 11 mins 9 secs

Question 1 Correct Marked out of

Flag question

 $Write\ a\ Java\ program\ to\ handle\ Arithmetic Exception\ and\ ArrayIndexOutOfBounds Exception.$

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:

10 0 20 30 40

Output:

java.lang.ArithmeticException: / by zero

I am always executed

Input:

3

10 20 30

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

Answer: (penalty regime: 0 %)

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

Question 2 Correct

Marked out of 5.00 Flag question 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:

5 2 1

Sample Output: 8 Sample Input: 2 1 g Sample Output: You entered bad data.

For example:

```
Input Result

3 8 5 2 1

2 You entered bad data.
```

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 | import java.util.Scanner;
      import java.util.InputMismatchException;
      public class ArraySum {
   public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int[] data = null;
}
10
11
12
                    int n = scanner.nextInt();
data = new int[n];
13
14
15
                     16
17
18
                     int sum = 0;
for (int num : data) {
19
20
                    \____ num : 0
| sum += num;
}
21
22
23
24
                     System.out.println(sum);
                } catch (InputMismatchException e) {
   System.out.println("You entered bad data.");
25
26
                 } finally {
27
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 **3**Correct
Marked out of 5.00

Flag question

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

Expected Got

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

Passed all tests!

Finish review

Lab-09-MCQ

Jump to...

The "Nambiar Number" Generator ►