CS23333-Object Oriented Programming Using Java-2023

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Started Monday, 21 October 2024, 7:15 PM
Completed Monday, 21 October 2024, 7:18 PM
Duration 3 mins 48 secs

Question **1**Correct
Marked out of 5.00

Frag 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

 $java.lang. ArrayIndexOutOf Bounds Exception: Index\ 3\ out\ of\ bounds\ for\ length\ 3$

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;
       public class ExceptionHandlingDemo {
  public static void main(string[] args) {
    Scanner sc = new Scanner(System.in);
    int size = sc.nextInt();
}
                    int[] array = new int[size];
for (int i = 0; i < size; i++) {
    array[i] = sc.nextInt();</pre>
                    fry {
   int result = array[0] / array[1];
   System.out.println("Element at index " + size + ": " + array[size]);
}
10
11
12
13
                    catch (ArithmeticException e) {
    System.out.println("java.lang.ArithmeticException: / by zero");
15
                    catch (ArrayIndexOutOfBoundsException e) {
    System.out.println("java.lang.ArrayIndexOutOfBoundsException: " + e.getMessage());
17
18
19
20
                           System.out.println("I am always executed");
21
22
23
       }
24
```

	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 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.ArrayIndexOutOfBoundsExco I am always executed
Passe	d all te	sts! 🗸)

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:

3

```
Sample Output:
8
Sample Input:
2
1 g
Sample Output:
You entered bad data.
For example:
 Input Result
 5 2 1
           You entered bad data.
 1 g
Answer: (penalty regime: 0 %)
 Reset answer
 import java.util.Scanner;
import java.util.InputMismatchException;
     import java.utilinputrismatchexception;
iclass prog {
  public static void main(string[] args) {
    Scanner sc = new Scanner(System.in);
    int length = sc.nextInt();
    int[] name = new int[length];
    int sum = A:
                      10
11
   12
13
                                  sum += name[i];
                      System.out.println(sum);
} catch (InputMismatchException e) {
System.out.println("You entered bad data.");
   14
15 •
   16
17
         }
    19
    20
                                                     Got
```

```
Input Expected Got

3 8 8 8 
5 2 1

You entered bad data. You entered bad data. You entered bad data.

Passed all tests! ✓
```

Question **3**Correct
Marked out of 5.00

Figure 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.

521

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
```

