import java.util.Scanner;

public class Exercise12\_03 {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

int[] array = generateRandomArray(100);

System.out.print("Enter the index of the array: ");

int index = input.nextInt();

try {

int elementValue = getElementAtIndex(array, index);

System.out.println("The corresponding element value is " + elementValue);

} catch (ArrayIndexOutOfBoundsException ex) {

System.out.println("Out of Bounds.");

}

input.close();

}

public static int[] generateRandomArray(int size) {

int[] array = new int[size];

for (int i = 0; i < size; i++) {

array[i] = (int) (Math.random() \* 100) + 1;

}

return array;

}

public static int getElementAtIndex(int[] array, int index) {

if (index < 0 || index >= array.length) {

throw new ArrayIndexOutOfBoundsException();

}

return array[index];

}

}