Solution@07-12-23

2295. Replace Elements in an Array

```
import java.util.Arrays;
import java.util.Scanner;

public class ReplaceElementsInArray {
   public static void main(String[] args) {
      // Create Scanner object for input
      Scanner scanner = new Scanner(System.in);

      // Example input array
      System.out.print("Enter the size of the array: ");
      int size = scanner.nextInt();

      int[] array = new int[size];

      System.out.println("Enter the elements of the array:");
      for (int i = 0; i < size; i++) {
         array[i] = scanner.nextInt();
      }

      System.out.print("Enter the target element to replace: ");
      int targetElement = scanner.nextInt();

      System.out.print("Enter the replacement value: ");
      int replacementValue = scanner.nextInt();

      // Call the method to replace elements
      replaceElements(array, targetElement, replacementValue);

      // Output the modified array
```

```
        System.out.println("Modified array: " + Arrays.toString(array));

        // Close the Scanner
        scanner.close();
    }

    // Method to replace elements in the array
    private static void replaceElements(int[] array, int targetElement, int replacementValue) {
        for (int i = 0; i < array.length; i++) {
            if (array[i] == targetElement) {
                array[i] = replacementValue;
            }
        }
    }
}
```

Output:-

```
PS C:\Users\Ajeet\Desktop\java> javac ReplaceElementsInArray.java
PS C:\Users\Ajeet\Desktop\java> java ReplaceElementsInArray
Enter the size of the array: 5
Enter the elements of the array:
1 2 3 4 3
Enter the target element to replace: 3
Enter the replacement value: 10
Modified array: [1, 2, 10, 4, 10]
```

2239. Find Closest Number to Zero

```
import java.util.Scanner;

public class ClosestNumberToZero {
    public static void main(String[] args) {
```

```
    Scanner scanner = new Scanner(System.in);

    // Input: Number of elements in the array
    System.out.print("Enter the number of elements: ");
    int n = scanner.nextInt();

    // Input: Array elements
    System.out.print("Enter the array elements separated by space: ");
    int[] array = new int[n];
    for (int i = 0; i < n; i++) {
        array[i] = scanner.nextInt();
    }

    // Find the closest number to zero
    int closestNumber = findClosestToZero(array);

    // Output: Display the closest number to zero
    System.out.println("Closest number to zero: " + closestNumber);

    scanner.close();
}

// Function to find the closest number to zero
private static int findClosestToZero(int[] array) {
    if (array.length == 0) {
        throw new IllegalArgumentException("Array cannot be empty");
    }

    int closestNumber = array[0];

    for (int i = 1; i < array.length; i++) {
```

```
            if (Math.abs(array[i]) < Math.abs(closestNumber) ||
                (Math.abs(array[i]) == Math.abs(closestNumber) && array[i] > closestNumber)) {
                closestNumber = array[i];
            }
        }

        return closestNumber;
    }
}
```

Output

```
PS C:\Users\Ajeet\Desktop\java> javac ClosestNumberToZero.java
PS C:\Users\Ajeet\Desktop\java> java ClosestNumberToZero
Enter the number of elements: 6
Enter the array elements separated by space: 7 -1 2 3 4 5
Closest number to zero: -1
```