**Critical Thinking 5**

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import java.util.Scanner;

public class Test {

    // Recursive method to calculate the product of an array of numbers

    public static int calculateProduct(int[] numbers, int index) {

        // Base case: if the index is less than 0, return 1

        if (index < 0) {

            return 1;

        }

        // Recursive case: calculate the product of the current number and the product of the rest of the numbers

        return numbers[index] \* calculateProduct(numbers, index - 1);

    }

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        // Array to store the five ints

        int[] numbers = new int[5];

        // Prompt the user to enter five numbers

        System.out.println("Enter five numbers:");

        for (int i = 0; i < 5; i++) {

            System.out.print("Number " + (i + 1) + ": ");

            numbers[i] = scanner.nextInt();

        }

        // Calculate the product using the recursive method

        int product = calculateProduct(numbers, 4);

        // Display the result

        System.out.println("The product of the five numbers is: " + product);

        scanner.close();

    }

}

