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package com.itbulls.learnit.javacore.methods.hw;

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

public class FindMaxInt {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        System.out.print("Please, enter integer numbers separated by space: ");
        String numbers = sc.nextLine();
        int[] intArray = convertStringArrayToIntArray(numbers.split("\\s+"));
        int maxInt = findMaxIntInArray(intArray);
        System.out.println("*** Initial Array ***");
        System.out.println(Arrays.toString(intArray));
        System.out.println("*** Max number in array ***");
        System.out.println(maxInt);
    }

    public static int findMaxIntInArray(int[] intArray) {

        int max = intArray[0];
        for (int i : intArray) {
            if (i > max) {
                max = i;
            }
        }
        return max;
    }

    private static int[] convertStringArrayToIntArray(String[] stringArray) {
```

```
        int[] intArray = new int[stringArray.length];
        for (int i = 0; i < stringArray.length; i++) {
            intArray[i] = Integer.valueOf(stringArray[i]);
        }
        return intArray;
    }
}
```

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// ===== SOLUTION WITH STREAM API
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```
public static int findMaxIntInArrayStreamApi(int[] intArray) {
    return Arrays.stream(intArray).max().getAsInt();
}
```

```
private static int[] convertStringArrayToIntArrayStreamApi(String[] stringArray) {
    return Arrays.stream(stringArray)
        .mapToInt(s -> Integer.valueOf(s))
        .toArray();
}
```

```
}
```