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Nested classes → Find min and max

Easy ⌚ 5 minutes ?

You have an outer class `ArrayCalc` and a static nested class `MinMaxPair` inside.

Complete the method `MinMaxPair` that finds the min and max elements of an array.

Motivation: our goal is to find the minimum and the maximum element of an array. Of course, it can be done by two different methods, but a special structure `MinMaxPair` will allow going through an array only **once**, which is more effective.

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Sample Input 1:

0 1 2 3 4 5 6 7 8 9

Sample Output 1:

min = 0
max = 9

Write a program

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Java

```
1 class ArrayCalc {
2
3     // static nested class
4     public static class MinMaxPair {
5         private int min;
6         private int max;
7
8         public MinMaxPair(int first, int second) {
9             this.min = first;
10            this.max = second;
11        }
12
13        public int getMin() {
14            return min;
15        }
16
17        public int getMax() {
18            return max;
19        }
20    }
21
22    // find min and max elements
23    public static MinMaxPair findMinMax(int[] array) {
24        int min = array[0];
25        int max = array[0];
26        // write your code
27        for (int num : array) {
28            if (min > num) {
29                min = num;
30            } else if (max < num) {
31                max = num;
32            }
33        }
34        return new MinMaxPair(min, max);
35    }
36 }
37
38 class Main {
39
40     public static void main(String[] args) {
41         Scanner scanner = new Scanner(System.in);
42
43         // input array
44         int[] array = new int[10];
45         for (int i = 0; i < 10; i++) {
46             array[i] = scanner.nextInt();
47         }
48
49         ArrayCalc.MinMaxPair p = ArrayCalc.findMinMax(array);
50
51         System.out.println("min = " + p.getMin());
```

```
52         System.out.println("max = " + p.getMax());
53     }
54 }
55
```

✓ Correct.

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