Min and Max in Array 🔖

Difficulty: **Basic**   Accuracy: **68.55%**   Submissions: **268K+**   Points: **1**

Given an array **arr**. Your task is to find the **minimum** and **maximum** elements in the array.

Note: Return an array that contains **two** elements the first one will be a minimum element and the second will be a maximum of an array.

Examples:

Input: arr = [3, 2, 1, 56, 10000, 167]
Output: 1 10000
Explanation: minimum and maximum elements of array are 1 and 10000.

Input: arr = [1, 345, 234, 21, 56789]
Output: 1 56789
Explanation: minimum and maximum element of array are 1 and 56789.

Input: arr = [56789]
Output: 56789 56789
Explanation: Since the array contains only one element so both min & max are same.

Expected Time Complexity: O(n)
Expected Auxiliary Space: O(1)

Constraints:
$1 <= arr.size() <= 10^5$
$1 <= arr[i] <= 10^{12}$

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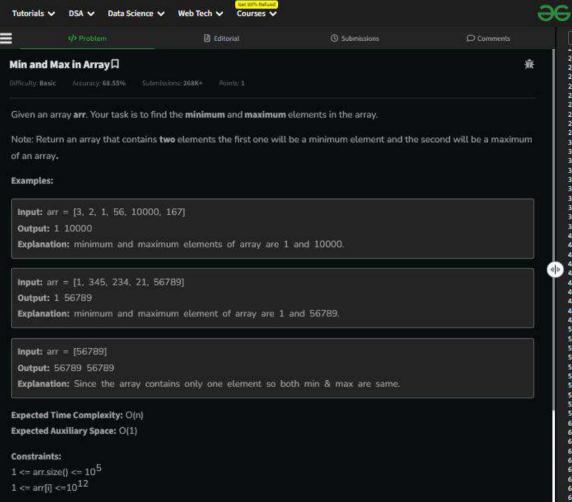**Explanation:** Since the array contains only one element so both min & max are same.

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Constraints:

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```java
    }

    public K getKey() {
        return key;
    }

    public V getValue() {
        return value;
    }
}

/* Java users need to return result in Pair class
For Example -> return new Pair(minimum,maximum)
*/

class Solution {
    public Pair<Long, Long> getMinMax(int[] arr) {

        if(arr.length==0){
            return null;
        }
        if(arr.length==1){
                Pair<Long, Long> P = new Pair<>((long) arr[0], (long) arr[0]);

            return  P;
        }
        int min=arr[0]; int max=arr[0];


        for (int i = 1; i < arr.length; i++) {
            if (arr[i] < min) {
                min = arr[i];
            }
            if (arr[i] > max) {
                max = arr[i];
            }
        }

        Pair<Long, Long> P = new Pair<>((long) min, (long) max);
return P;
        // Code Here

        // Code Here
    }
}
```

geeksforgeeks.org/problems/find-minimum-and-maximum-element-in-an-array4428/1?itm_source=geeksforgeeks&itm_medium=article&itm_camp...

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Java (1.8) ∨   Average Time: 10m   ⊙ Your Time: 16m 46s   ⊙ ⊙

Output Window   — ✕

Compilation Results   Custom Input

Problem Solved Successfully ✅   Suggest Feedback

Test Cases Passed	Attempts : Correct / Total
1119 / 1119	**1/1**
	Accuracy : **100%**

Points Scored ⓘ	Time Taken
1/1	**0.72**
Your Total Score: **40** ↑	

Solve Next

(Type of array) (Largest Element in Array) (Find the smallest and second smallest element in an array)

```java
27        public V getValue() {
28            return value;
29        }
30    }
31
32    Java users need to return result in Pair class
33    For Example -> return new Pair(minimum,maximum)
34    */
35
36    class Solution {
37        public Pair<Long, Long> getMinMax(int[] arr) {
38
39
40            if(arr.length==0){
41                return null;
42            }
43            if(arr.length==1){
44                    Pair<Long, Long> P = new Pair<>((long) arr[0], (long) arr[0]);
45
46                return  P;
47            }
48            int min=arr[0]; int max=arr[0];
49
50
51            for (int i = 1; i < arr.length; i++) {
52                if (arr[i] < min) {
53                    min = arr[i];
54                }
55                if (arr[i] > max) {
56                    max = arr[i];
57                }
58            }
59
60            Pair<Long, Long> P = new Pair<>((long) min, (long) max);
61    return P;
62            // Code Here
63
64            // Code Here
65        }
66    }
67
68    // } Driver Code Ends
```

Custom Input   **Compile & Run**   **Submit**

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