# Minimum Average of Smallest and Largest Elements - LeetCode

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# 3194. Minimum Average of Smallest and Largest Elements

You have an array of floating point numbers averages which is initially empty. You are given an array nums of n integers where n is even.

You repeat the following procedure | n / 2 | times:

- Remove the **smallest** element, minElement, and the **largest** element maxElement, from nums.
- Add (minElement + maxElement) / 2 to averages.

Return the **minimum** element in averages.

#### Example 1:

**Input:** nums = [7,8,3,4,15,13,4,1]

**Output:** 5.5

# **Explanation:**

step	nums	averages
0	[7,8,3,4,15,13,4,1]	
1	[7,8,3,4,13,4]	[8]
2	[7,8,4,4]	[8,8]
3	[7,4]	[8,8,6]
4		[8,8,6,5.5]

The smallest element of averages, 5.5, is returned.

#### Example 2:

**Input:** nums = [1,9,8,3,10,5]

**Output:** 5.5

# **Explanation:**

step	nums	averages
0	[1,9,8,3,10,5]	
1	[9,8,3,5]	[5.5]
2	[8,5]	[5.5,6]
3	0	[5.5,6,6.5]

### Example 3:

**Input:** nums = [1,2,3,7,8,9]

**Output:** 5.0

# **Explanation:**

step	nums	averages
0	[1,2,3,7,8,9]	[]
1	[2,3,7,8]	[5]

2	[3,7]	[5,5]
3		[5,5,5]

# **Constraints:**

- 2 <= n == nums.length <= 50
- n is even.
- 1 <= nums[i] <= 50