5122. Mean of Array After Removing Some Elements

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Given an integer array `arr`, return *the mean of the remaining integers after removing the smallest `5%` and the largest `5%` of the elements.*

Answers within 10^{-5} of the **actual answer** will be considered accepted.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Easy

Example 1:

```
Input: arr = [1,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,3]
Output: 2.00000
Explanation: After erasing the minimum and the maximum values of this array, all elements a
```

Example 2:

```
Input: arr = [6,2,7,5,1,2,0,3,10,2,5,0,5,5,0,8,7,6,8,0]
Output: 4.00000
```

Example 3:

```
Input: arr = [6,0,7,0,7,5,7,8,3,4,0,7,8,1,6,8,1,1,2,4,8,1,9,5,4,3,8,5,10,8,6,6,1,0,6,10,8,2,3,4]
Output: 4.77778
```

Example 4:

```
Input: arr = [9,7,8,7,7,8,4,4,6,8,8,7,6,8,8,9,2,6,0,0,1,10,8,6,3,3,5,1,10,9,0,7,10,0,10,4,1,10,6,9,3,6,0,0,2,7,0,6,7,2,9,7
Output: 5.27778
```

Example 5:

```
Input: arr = [4,8,4,10,0,7,1,3,7,8,8,3,4,1,6,2,1,1,8,0,9,8,0,3,9,10,3,10,1,10,7,3,2,1,4,9,10,7,6,4,0,8,5,1,2,1,6,2,5,0,7,10
Output: 5.29167
```

Constraints:

- `20 <= arr.length <= 1000`
- `arr.length` **is a multiple** of `20`.
- `0 <= arr[i] <= 10^5`

JavaScript

```
/**
 * @param {number[]} arr
 * @return {number}
 */
const trimMean = (arr) => {
   let n = arr.length;
   let remove = n * 0.05;
   arr.sort((a, b) => a - b);
   for (let i = 1; i <= remove; i++) {
      arr.shift();
      arr.pop();
   }
   let sum = arr.reduce((cur, acc) => cur + acc);
   let res = sum / arr.length;
```

```
15    return parseFloat(res.toFixed(5));
16 };
```

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