Problem 1619: Mean of Array After Removing Some Elements

Problem Information

Difficulty: Easy
Acceptance Rate: 71.09%
Paid Only: No
Tags: Array, Sorting

Problem Description

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.

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 are equal to 2, so the mean is 2.

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

Constraints:

* `20 <= arr.length <= 1000` * `arr.length`******is a multiple** of `20`. * `0 <= arr[i] <= 105`

Code Snippets

C++:

```
class Solution {
public:
double trimMean(vector<int>& arr) {

}
};
```

Java:

```
class Solution {
public double trimMean(int[] arr) {

}
}
```

Python3:

```
class Solution:
def trimMean(self, arr: List[int]) -> float:
```