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 = [1,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,3]

**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

**Example 4:**

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

**Output:** 5.27778

**Example 5:**

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

**Output:** 5.29167

**Constraints:**

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