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Mean And Median of Array

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Easy

Accuracy: 44.05%

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Given an array **a[]** of size **N**. The task is to find the **median** and **mean** of the array elements. Mean is average of the numbers and median is the element which is smaller than half of the elements and greater than remaining half. If there are odd elements, the median is simply the middle element in the sorted array. If there are even elements, then the median is floor of average of two middle numbers in the sorted array. If mean is floating point number, then we need to print floor of it.

Note: To find the **median**, you might need to **sort** the array. Since sorting is covered in later tracks, we have already provided the sort function to you in the code.

Example 1:

Input:

N = 5
a[] = {1, 2, 19, 28, 5}

Output: 11 5

Explanation: For array of 5 elements,

Python3

Start Timer

1 # } Driver Code Ends

11 #User function Template for python3

12

13 class Solution:

14 ##Complete the below codes

15 #Function to find median of the array elements.

16 def median(self,A,N):

17 #For median, we need to sort the array.

18 A.sort()

19 median=0

20

21 #If number of elements is even then the median is average of two middle terms.

22 if N%2==0:

23 median=(A[N//2]+A[(N//2)-1])//2

24 #If number of elements are odd then the middle term is the median.

25 else:

26 median=A[(N-1)//2]

27

28 #returning the median.

29 return median

30 ##Your code here

31 #If median is fraction then convert the median to integer and return

32

33 #Function to find mean of the array elements.

34 def mean(self,A,N):

35 ##Your code here

36 sum = 0

37 for i in A:

38 sum =sum+i

39 return int(sum/N)

40

41

42 # } Driver Code Ends

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