**Average of an Array**

Given an array, the task is to find average of that array. Average is the sum of array elements divided by the number of elements.

**Examples :**

Input : arr[] = {1, 2, 3, 4, 5}

Output : 3

Sum of the elements is 1+2+3+4+5 = 15

and total number of elements is 5.

So average is 15/5 = 3

Input : arr[] = {5, 3, 6, 7, 5, 3}

Output : 4.83333

Sum of the elements is 5+3+6+7+5+3 = 29

and total number of elements is 6.

So average is 29/6 = 4.83333.

**Iterative:**   
Iterative program is easy. We need to find sum and divide sum by total number of elements.

C++

// C++ program to calculate average of array elements

#include <iostream>

using namespace std;

// Function that return average of an array.

double average(int a[], int n)

{

// Find sum of array element

int sum = 0;

for (int i=0; i<n; i++)

sum += a[i];

return (double)sum/n;

}

// Driver code

int main()

{

int arr[] = {10, 2, 3, 4, 5, 6, 7, 8, 9};

int n = sizeof(arr)/sizeof(arr[0]);

cout << average(arr, n) << endl;

return 0;

}

**Output**

6

**Time Complexity:**O(n)

**Auxiliary Space:**O(1)