# 643. Maximum Average Subarray I

You are given an integer array nums consisting of n elements, and an integer k.

Find a contiguous subarray whose length is equal to k that has the maximum average value and return this value. Any answer with a calculation error less than 10-5 will be accepted.

## SOLUTION IN C++

class Solution {

public:

double findMaxAverage(vector<int>& nums, int k) {

double sum = accumulate(nums.begin(), nums.begin() + k, 0);

double ans = sum;

for (int i = k; i < nums.size(); ++i) {

sum += nums[i] - nums[i - k];

ans = max(ans, sum);

}

return ans / k;

}

};