Given an array consisting of n integers, find the contiguous subarray of given length k that has the maximum average value. And you need to output the maximum average value.

**Example 1:**

**Input:** [1,12,-5,-6,50,3], k = 4

**Output:** 12.75

**Explanation:** Maximum average is (12-5-6+50)/4 = 51/4 = 12.75

**Note:**

1. 1 <= k <= n <= 30,000.
2. Elements of the given array will be in the range [-10,000, 10,000].