

# COCI '14 Contest 7 #5 Prosjek

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You are given an array of  $N$  integers. Find a consecutive subsequence of numbers of the length at least  $K$  that has the maximal possible average.

**Please note:** the average of a subsequence is the sum of all the numbers in the subsequence divided by its length.

## Input

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The first line of input contains two integers  $N$  ( $1 \leq N \leq 3 \cdot 10^5$ ) and  $K$  ( $1 \leq K \leq N$ ). The second line of input contains  $N$  integers  $a_i$  ( $1 \leq a_i \leq 10^6$ )

## Output

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The first and only line of output must contain the maximal possible average. An absolute deviation of  $\pm 0.001$  from the official solution is permitted.

## Scoring

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In test cases worth 30% of total points, it will hold that  $N$  is not larger than 5 000.

## Sample Input 1

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```
4 1
1 2 3 4
```

## Sample Output 1

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```
4.000000
```

## Sample Input 2

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```
4 2
2 4 3 4
```

## Sample Output 2

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3.666666

## Sample Input 3

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6 3  
7 1 2 1 3 6

## Sample Output 3

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3.333333