北京大学 PEKING UNIVERSITY

JUDGE ONLINE FOR ACM/ICPC

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Language: Default

Best Cow Fences

Time Limit: 1000MS **Memory Limit:** 30000K

Total Submissions: 11226 **Accepted:** 3683

Description

Farmer John's farm consists of a long row of N (1 <= N <= 100,000)fields. Each field contains a certain number of cows, 1 <= ncows <= 2000.

FJ wants to build a fence around a contiguous group of these fields in order to maximize the average number of cows per field within that block. The block must contain at least F (1 <= F <= N) fields, where F given as input.

Calculate the fence placement that maximizes the average, given the constraint.

Input

* Line 1: Two space-separated integers, N and F.

* Lines 2..N+1: Each line contains a single integer, the number of cows in a field. Line 2 gives the number of cows in field 1,line 3 gives the number in field 2, and so on.

Output

* Line 1: A single integer that is 1000 times the maximal average.Do not perform rounding, just print the integer that is 1000*ncows/nfields.

Sample Input

```
10 6
6
4
2
10
3
8
5
9
4
1
```

Sample Output

```
6500
```

Source

USACO 2003 March Green

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