Caribbean Online Judge

2618 - Ferrets

Description

A ferrets are passionate about playing with food. When they cannot entertain finger biting its owner, have fun accumulating its k hash n feeders in their favorite hiding places. Our ferret, which is something methodical, does the following process: for each room, and whenever there is in it n croquettes or more, divided (one to one) among his n croquettes hideouts. The remaining croquettes eats, to refuel.

It asks you to calculate how many croquettes end having at each hideout, assuming that start with food eaters, and caches start empty.

Input specification

The input contains two lines. The first line contains space-separated numbers k and n of feeding and hiding (there's always at least one of each, n, k \leq 2000, each feeder has, at most, 10 ^ 6 croquettes). The second line contains exactly k positive numbers, with the number of hash there in the beginning in each trough.

Output specification

A single number describing the number of hash that will be in each shelter after the ferret has distributed all the food.

Sample input

1 1

897

Sample output

897

Hint(s)

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Added by Igvallejo

Caribbean Online Judge

Addition date 2013-11-11

Time limit (ms) 10000

Test limit (ms) 1000

Memory limit (kb) 130000

Output limit (mb) 64

Size limit (bytes) 15000

Enabled languages

Bash C C# C++ Java Pascal Perl PHP

Python Ruby Text