

# Problem F – Krakovia

**Time Limit: 1 second**

Viktor lives in a far and cold country named Krakovia that is passing by difficult times. Viktor works in a factory and after a work day he often goes with some friends to a bar to drink some beers and to dream with better times.

Due to some economical problems the inflation is very high in Krakovia and a beer costs about 5,400,000,000 Krakovian dollars. Because this, is hard to check the value of the bill and to divide its value equally by Viktor and his friends. As you have a good heart you have decided to help them to solve this problem.

## Input

There will be several test cases, each test case starts with two numbers  $1 \leq N \leq 1000$  that is the number of items in the bill and  $1 \leq F \leq 20$  that represents how many friends are in the bar and should pay the bill. Then there will be  $N$  lines, each line represents the value of an item. The value of an item is indicated by an integer  $1 \leq V \leq 10^{20}$ . Input is terminated by a bill where  $N = F = 0$ .

## Output

For each test case you should print the message: **Bill #N costs S: each friend should pay P**, where  $N$  represents the number of the bill, starting from 1;  $S$  indicates the sum of the items of the bill; and  $P$  is how much money each friend should pay, you should calculate this value by dividing the total value of the bill by the number of friends in the bar, if the result is not an integer value just print the integer part of the number, see the sample input/output. After each test case, you should print a blank line.

## Sample Input

```
3 3
5400000000
5400000000
5400000000
3 2
5400000000
5400000000
9000000001
0 0
```

## Sample Output

```
Bill #1 costs 16200000000: each friend should pay 5400000000
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Bill #2 costs 19800000001: each friend should pay 9900000000

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**Problem setter: Sérgio Queiroz de Medeiros**