Input File: WillieIn.txt
Output File: WillieOut.txt
Project File: Willie

Inspired by the recent Olympics in Turin, your great-uncle Willie has decided to get in shape with his eye on a gold medal in the 2008. Every morning he takes a brisk walk around his living room counting his strides as he walks. Last evening he called you quite upset that none of the Olympic events were measured in strides.

When you suggested he simply "convert", great-uncle Willie became quite agitated and responded that he "was not about to change his faith at this point in his life". To calm great-uncle Willie, you have promised to write a program that converts his strides to meters, so that he can target an event and realize his life long dream of becoming an Olympic champion (without changing his faith).

Inputs
The first line of the file will contain two real numbers: the length of great-uncle Willie's stride measured in feet, and the number of feet in a meter. This line will be followed by the length of great-uncle Willie's five most recent walks measured in strides, one walk per line.

Outputs
There will be six lines of output. The first five lines of output will be the length of each walk in meters, one walk distance per line. These will be in the same order as the input distances. The final output will be the average distance of great-uncle Willie's five most recent walks.

Sample input
2.1 2.28
103
200
120
500
31

Sample output
94.8684
184.211
110.526
460.526
28.5526
175.737