16^{th} South African Regional ACM Collegiate Programming Contest

Sponsored by IBM 4 October 2014

Problem 0 — Translucent Balloon Hello World

Problem Description

Need a nice excuse for saying Hello so often.

Input

You are given a list of names, one per line. The termination of the input file contains a single . on its own line. No name will contain whitespace.

Output

You need to output the world Hello followed by the name and a full stop for every name input.

Sample input

Peter

Bob

Sample output

Hello Peter.

Hello Bob.

Time limit

5 seconds

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Problem 1 — Clear Balloon Toy Test

Problem Description

You have been approached by a leading toy manufacturer to automate the process of toy acceptance and rejection after production. The toys are measured by laser and you are given these measurements and the criteria to which they must comply.

Input

For each toy, 3 measurements are given in millimeters (mm) followed by a tolerance, also in millimeters. Each measurement must be within the specified tolerance of every other measurement. A tolerance of 0 requires all measurements to be exactly the same. A first measurement of -1 signals the end of input.

Output

All you need to do is output 0 if the toy is rejected and 1 if it has been accepted. A toy is rejected if at least one of the measurement pairs falls outside the specified tolerance zone.

Sample input

Sample output

0 1 1

Time limit

5 seconds