Calories From Fat

Fat contains about 9 Calories/g of food energy. Protein, sugar, and starch contain about 4 Calories/g, while alcohol contains about 7 Calories/g. Although many people consume more than 50% of their total Calories as fat, most dieticians recommend that this proportion should be 30% or less. For example, in the *Nutrition Facts* label to the right, we see that 3g of fat is 5% of the recommended daily intake based on a 2,000 calorie diet. A quick calculation reveals that the recommended daily intake of fat is therefore 60g; that is, 540 Calories or 27% Calories from fat.

Others recommend radically different amounts of fat. Dean Ornish, for example, suggests that less than 10% of total caloric intake should be fat. On the other hand, Robert Atkins recommends the elimination of all carbohydrate with no restriction on fat. It has been estimated that the average Atkins dieter consumes 61% of Calories from fat.

From a record of food eaten in one day, you are to compute the percent Calories from fat. The record consists of one line of input per food item, giving the quantity of fat, protein, sugar, starch and alcohol in each. Each quantity is an integer followed by a unit, which will be one of: g (grams), C (Calories), or % (percent Calories). Percentages will be between 0 and 99. At least one of the ingredients will be given as a non-zero quantity of grams or Calories (not percent Calories).

Input

Input will consist of several test cases (at most 150). Each test case will have one or more lines as described above (at most 100). Each test case will be terminated by a line containing '-'. An additional line containing '-' will follow the last test case.

Output

For each test case, print percent Calories from fat, rounded to the nearest integer.

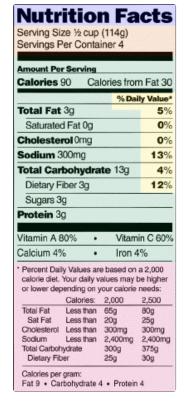
Sample Output 1

53%

100% 32%

Sample Input 1





Problem ID: calories CPU Time limit: 1 second Memory limit: 1024 MB Difficulty: 2.0

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