# SPOJ Problem Set (classical)

# 2524. Conversions

# Problem code: GNY07B

Conversion between the metric and English measurement systems is relatively simple. Often, it involves either multiplying or dividing by a constant. You must write a program that converts between the following units:

| Type | Metric | English equivalent |
|---|---|---|
| **Weight** | 1.000 kilograms | 2.2046 pounds |
| | 0.4536 kilograms | 1.0000 pound |
| **Volume** | 1.0000 liter | 0.2642 gallons |
| | 3.7854 liters | 1.0000 gallon |

## Input

The first line of input contains a single integer N, (1 <= N <= 1000) which is the number of datasets that follow.

Each dataset consists of a single line of input containing a floating point (double precision) number, a space and the unit specification for the measurement to be converted. The unit specification is one of kg, lb, l, or g referring to kilograms, pounds, liters and gallons respectively.

## Output

For each dataset, you should generate one line of output with the following values: The dataset number as a decimal integer (start counting at one), a space, and the appropriately converted value rounded to 4 decimal places, a space and the unit specification for the converted value.

## Example

**Input:**

```
5
1 kg
2 l
7 lb
3.5 g
0 l
```

**Output:**

```
1 2.2046 lb
2 0.5284 g
3 3.1752 kg
4 13.2489 l
5 0.0000 g
```

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Time limit: 60s
Source limit: 50000B
Languages: All
Resource: ACM Greater New York Regionals 2007