DWITE '08 R3 #3 - Unicorns and Teaspoons

Time limit: 2.0s   **Memory limit:** 64M

DWITE Online Computer Programming Contest, December 2008, Problem 3

Google's calculator works with some pretty weird units of measure. Have you tried searching for a value of the answer to life the universe and everything / number of horns on a unicorn? (*btw*, it's 42) We'll try to work with just the *imperial units of volume* for now.

You'll need this table of conversions:

5 fluid ounce (oz)	1 gill (gill)
4 gill (gill)	1 pint (pt)
2 pint (pt)	1 quart (qt)
4 quart (qt)	1 gallon (gal)

The input will contain 5 lines in a format of: **value unit1 in unit2**, where the goal is to convert from unit1 to unit2, for a given value. $1 \leq value \leq 1000$. Units are expressed as keys inside brackets in the table above.

The output will contain 5 integers – the converted values. The supplied input will always work out to be an integer answer.

Sample Input

```
10 oz in gill
20 oz in pt
2 gal in oz
1 gal in qt
2 pt in pt
```

Sample Output

```
2
1
320
4
2
```