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## Interest (1)

P85370\_en

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Given an initial capital  $c$  in euros, an annual interest rate  $i$  (expressed in %), a time  $t$  in years and an indication whether the interest is simple or compound, determine the amount of euros the initial capital is transformed into.

### Input

The input consists of two strictly positive real numbers  $c$  and  $i$ , followed by a strictly positive integer  $t$ , followed by either the word "simple" or the word "compound".

### Output

Write the final capital with 4 decimal places.

### Observation

If you program in C++, use the `double` data type and put these two lines at the beginning of your `main()`:

```
cout.setf ( ios :: fixed );  
cout.precision (4);
```

#### Sample input 1

```
1000 3 2 simple
```

#### Sample input 2

```
1000 3 2 compound
```

#### Sample input 3

```
1234.5 5.1 22 compound
```

#### Sample output 1

```
1060.0000
```

#### Sample output 2

```
1060.9000
```

#### Sample output 3

```
3687.6598
```

### Problem information

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Generation : 2024-05-03 00:50:38