Problem 4—7/11 Pricing
written by Andy Poe and Dave Powers

Although Michelle Kwan does most of her shopping at—you guessed it—the Circle K, she also has a fondness for the 7/11. She often wonders if the prices of her items will have an equal sum and product. And could that sum and product equal 7.11? Given a total cost and a total number of items, determine the exact cost of each item for them to add and to multiply to the exact same number.

INPUT SPECIFICATION. The input will contain multiple cases. The input for each case will be a positive integer, representing the number of items (2-4), one space, the total cost of the items, and <**EOLN**>. The last input case will be followed by "-1<**EOLN**>".

OUTPUT SPECIFICATION. For each case, output the string "Case *c*: *list*<**EOLN**><**EOLN**>" where *c* is the case number and *list* is the list of prices items arranged from smallest to largest separated by a comma and a space and printed with two digits to the right of the decimal point. The sum and product must *exactly* equal the input price. There is no accounting for round-off error in this problem. No input or output case will involve fractions of a cent; however, it may well be that the prices involved are not even dollar amounts. The answer will be unique for each case.

SAMPLE INPUT.

```
2·4.00<EOLN>
3·6.00<EOLN>
-1<EOLN>
<EOF>
```

SAMPLE OUTPUT.

```
Case·1:·2.00,·2.00<EOLN>
<EOLN>
Case·2:·1.00,·2.00,·3.00<EOLN>
<EOLN>
<EOF>
```