2002-2003

Contest #3

Intermediate Division

STRINGS AND THINGS

PROBLEM: Given a string of characters, answer some questions about the string.

INPUT: A string of characters. All the letters will be upper case. The characters may not be read in one at a time or one word at a time.

OUTPUT:

- 1. How many words are in the string.
- 2. Print all the words in reverse order, ie STOP becomes POTS.
- 3. Write the words in alphabetical order. Each word is printed just once.
- 4. Print the letters used in alphabetical order. Each letter is printed just once.
- 5. Print the words in the string in reverse order, ie I SEE HIM becomes HIM SEE I

SAMPLE INPUT

IN A RIGHT TRIANGLE THE SQUARE OF THE HYPOTENUSE EQUALS THE SUM OF THE SQUARES OF THE LEGS

SAMPLE OUTPUT

1. 18

- 2. NI A THGIR ELGNAIRT EHT ERAUQS FO EHT ESUNETOPYH SLAUQE EHT MUS FO EHT SERAUQS FO EHT SGEL
- 3. A EQUALS HYPOTENUSE IN LEGS OF RIGHT SQUARE SQUARES SUM THE TRIANGLE
- 4. AEFGHILMNOPQRSTUY
- 5. LEGS THE OF SQUARES THE OF SUM THE EQUALS HYPOTENUSE THE OF SQUARE THE TRIANGLE RIGHT A IN