

# Hangman

## Hangman

You are playing a game of Hangman with your brother. He begins by choosing a word, and he writes down one blank for each letter in the word. You then repeatedly guess letters that you think could be in the word. Every time you guess a letter, your brother indicates every occurrence of that letter in the word by replacing blanks with the corresponding letter. For example, suppose your brother chooses the word, "NINJA".

He begins by writing down 5 blanks, indicated here by dashes: "-----". Suppose you first guess the letter 'A'. Then, your brother would reveal the one instance of 'A' in the word: "----A". Suppose you next guess the letter 'N'. Then, your brother would reveal both instances of 'N' in the word: "N-N-A". Suppose you next guess the letter 'E'. Then, your brother would reveal nothing new since 'E' is not in the word: "N-N-A".

You will be given a String feedback and a sequence of words. Since your brother is fairly predictable, you have determined that the word he is thinking of is an element of words. You also have the information he has given you after some number of guesses (possibly 0), given in feedback. As above, blanks are represented by dashes ('-'), and revealed letters are represented by capital letters ('A'-'Z'). You now wish to guess the word that your brother is thinking of. If there is exactly one element of words that is consistent with feedback, you should print that element. Otherwise, you should print an empty line.

### Notes:

**feedback** will contain between 1 and 50 characters inclusive.

Each character in **feedback** will be either a capital letter ('A'-'Z') or a dash ('-').

**words** will contain between 1 and 50 elements inclusive.

Each element in **words** will contain between 1 and 50 characters inclusive.

No two elements in **words** will be equal.

Each character in each element of **words** will be a capital letter ('A'-'Z').

### Input Specification

The input will contain several test cases, each test cases will be in two lines, a line with the feedback, and another with the given words.

### **Output Specification**

Print one line per test case with the answer, follow the format below

### **Input Example**

N-N-A

NINJA NINJAS FLIPS OUT FRISBEE

B--B--

BRINGS BARBED BUBBLE

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MONKEY FORCE IS GAINING STRENGTH

-AAA--

CAAABB BAAACC

### **Output Example**

NINJA

BARBED

You can find the statement [here](#)