1. Program

1

Attempted: 1/1

Question 1

Revisit Later

How to Attempt?

Identify possible words: Detective Bakshi while solving a case stumbled upon a letter which had many words whose one character was missing i.e. one character in the word was replaced by an underscore. For e.g."Fi_er". He also found thin strips of paper which had a group of words separated by colons, for e.g. "Fever:filer:Filter:Fixer:fiber:fibre:tailor:offer". He could figure out that the word whose one character was missing was one of the possible words from the thin strips of paper. Detective Bakshi has approached you (a computer programmer) asking for help in identifying the possible words for each incomplete word.

You are expected to write a function to identify the set of possible words.
The function **identifyPossibleWords** takes two strings as input
where,
input1 contains the incomplete word, and
input2 is the string containing a set of words separated by colons.
The function is expected to find all the possible words from **input2** that can replace the incomplete word **input1**, and return the result in the format suggested below.

Example1 -
input1 = "Fi_er"
input2 = "Fever:filer:Filter:Fixer:fiber:fibre:tailor:offer"
output string should be returned as "FILER:FIXER:FIBER"

Note that –

- The output string should contain the set of all possible words that can replace the incomplete word in **input1**
- all words in the output string should be stored in UPPER-CASE
- all words in the output string should appear in the order in which they appeared in **input2**, i.e. in the above example we have FILER followed by FIXER followed by FIBER.
- While searching for **input1** in **input2**, the case of the letters are ignored, i.e "Fi_er" matches with "filer" as well as "Fixer" as well as "fiber".
- **IMPORTANT:** If none of the words in input2 are possible candidates to replace input1, the output string should contain the string "**ERROR-009**"

Assumption(s):

- **Input1** will contain only a single word with only 1 character replaced by an underscore "_"
- **Input2** will contain a series of words separated by colons and NO space character in between

JAVA7 | Compiler: Java - 1.7

```java
import java.io.*;
import  java.util.*;

// Read only region start
class UserMainCode
{

    public String identifyPossibleWords(String input1,String input2){
        // Read only region end
        // Write code here....
        input1= input1.toUpperCase();
        StringBuffer output = new StringBuffer();
        String[] words = input2.split(":");
        int underscoreIndex = input1.indexOf('_');

        for (int i = 0; i < words.length; i++) {
            words[i] = words[i].toUpperCase();

            if (words[i].length() >= input1.length() &&
            input1.replace('_', words[i].charAt(underscoreIndex)).equals(words[i])) {
                output.append(words[i]).append(":");
            }
        }

        if (output.length() == 0) return "ERROR-009";
        else return output.toString().substring(0, output.length() - 1);
    }
}
```

Use Custom Input

Compile and Test | Submit Code

1. Program

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- **Input2** will NOT contain any other special character other than underscore and alphabetic characters.

1

Attempted: 1/1

Use Custom Input

Compile and Test | Submit Code

Code Execution | Code History

0/2 - Sample Test Cases Failed

default

CODE EXECUTION DETAILS

Time: 159 ms

Memory: 103812 kb

TEST CASE INFORMATION

Input

Fi_er,Fever:filer:Filter:Fixer:fiber:fibre:tailor:offer

Expected Output

FILER:FIXER:FIBER

Actual Output

FILER:FIXER:FIBER

CONSOLE OUTPUT

STANDARD ERROR/WARNING

None

default

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Use Custom Input

Compile and Test | Submit Code

Code Execution | Code History

0/7 - Graded Test Cases Failed

- TC 7
- TC 6
- TC 5
- TC 4
- TC 3
- TC 2
- TC 1