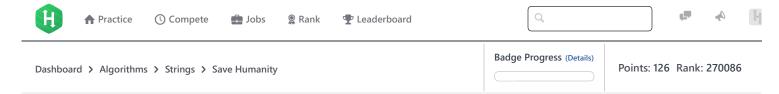
15/11/2017 HackerRank



# Save Humanity **■**



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Oh!! Mankind is in trouble again. This time it's a deadly disease spreading at a rate never seen before. The need of the hour is to set up efficient virus detectors. You are the lead at Central Hospital and need to find a fast and reliable way to detect the 'foot-prints' of the virus DNA in that of the patient.

The DNA of the patient as well as of the virus consists of lower case letters. Since the data collected is raw, there may be some errors. You will need to find all substrings in the patient DNA that either exactly matches the virus DNA, or has at most one mismatch.

For example: "aa" and "aa" are matching, "ab" and "aa" are matching, while "ab" and "ba" are not.

#### **Input Format**

The first line contains the number of test cases T. T test cases follow.

Each case contains two strings P(Patient DNA) and V(Virus DNA) separated by space.

#### **Constraints**

1 <= T <= 10

P and V contain at most 100000 characters each.

All characters in P and V are lowercase letters.

### **Output Format**

Output T lines, one corresponding to each test case. For each test case, output a space delimited list of starting indices (0 indexed) of substrings of P which are matching with V according to the condition mentioned above. The indices have to be in an increasing order. If there is no matching output No Match!.

#### **Sample Input**

abbab ba hello world banana nan

## **Sample Output**

1 2 No Match! 0 2

## **Explanation**

For the first case, the substrings of P starting at indices 1 and 2 are "bb" and "ba" and they are matching with the string V which is "ba". For the second case, there are no matching substrings so the output is a blank line.

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Submissions:3373

Max Score:100

15/11/2017 HackerRank

Difficulty: Expert

Rate This Challenge:

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More

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Current Buffer (saved locally, editable) & • •
                                                                                             Java 7
                                                                                                                              \Diamond
 1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
 7 ▼ public class Solution {
 8
        public static void main(String[] args) {
 9 ▼
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10 ▼
11
   }
12
                                                                                                                      Line: 1 Col: 1
                      ☐ Test against custom input
                                                                                                          Run Code
                                                                                                                       Submit Code
1 Upload Code as File
```

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