# STRING SUBSTITUTION

## CHALLENGE DESCRIPTION:

Credits: This challenge was contributed by Sam McCoy

Given a string S, and a list of strings of positive length, F1,R1,F2,R2,...,FN,RN, proceed to find in order the occurrences (left-to-right) of Fi in S and replace them with Ri. All strings are over alphabet { 0, 1 }. Searching should consider only contiguous pieces of S that have not been subject to replacements on prior iterations. An iteration of the algorithm should not write over any previous replacement by the algorithm.

## INPUT SAMPLE:

Your program should accept as its first argument a path to a filename. Each line in this file is one test case. Each test case will contain a string, then a semicolon and then a list of comma separated strings. E.g.

```
10011011001;0110,1001,1001,0,10,11
```

## OUTPUT SAMPLE:

For each line of input, print out the string after substitutions have been made.eg.

```
11100110
```

For the curious, here are the transitions for the above example: 10011011001 => 10100111001 [replacing 0110 with 1001] => 10100110 [replacing 1001 with 0] => 11100110 [replacing 10 with 11]. So the answer is 11100110