#### Time limit: 1.0s Memory limit: 256M

You are given three strings, P, S, T. We will define the score of a substring M of S as the sum of the length of the longest suffix of P that is a prefix of M and the length of the longest prefix of T that is a suffix of M. Find the highest possible score of any such substring of S. Each string will only contain lowercase letters.

### Subtasks

- 1. (40 points)  $1 \leq |P|, |S|, |T| \leq 200$
- 2. (60 points)  $1 \leq |P|, |S|, |T| \leq 10^5$

### **Input Specification**

The first line will contain the string P, the second will contain S, and the third T.

# **Output Specification**

A single integer, denoting the largest achievable score of any substring of S.

## Sample Input 1

abc abcdef f

# Sample Output 1

4

## Sample Input 2

аа			
аа			
аа			

4