# **Edit Distance**

#### The Problem

Calculate the Levenshtein Distance between two stings *x* and *y*. The cost of deletion is 1, the cost of insertion is 1, and the cost of substitution is 1.

## The Input

The input begins with a line containing a single integer, T, the number of test cases which follow. For each test case, two lines of text, each with length between 0 and 1000 follow.

### The Output

For each test case output the Levenshtein Distance between the two strings on a line by itself.

# **Sample Input**

4
polynomial
exponential
virtual
ritual
four

four

# **Sample Output**

6

2

4