

## 1255 – Substring Frequency

A string is a finite sequence of symbols that are chosen from an alphabet. In this problem you are given two non-empty strings **A** and **B**, both contain lower case English alphabets. You have to find the number of times **B** occurs as a substring of **A**.

### Input

Input starts with an integer **T** ( $\leq 5$ ), denoting the number of test cases.

Each case starts with two lines. First line contains **A** and second line contains **B**. You can assume than  $1 \leq \text{length}(\mathbf{A}), \text{length}(\mathbf{B}) \leq 10^6$ .

### Output

For each case, print the case number and the number of times **B** occurs as a substring of **A**.

Sample Input	Output for Sample Input
4 axbyczd abc abcabcabcabc abc aabacbaabbaaz aab aaaaaa aa	Case 1 : 0 Case 2 : 4 Case 3 : 2 Case 4 : 5

### Note

Dataset is huge, use faster I/O methods.