

## Problem E. Easy String Problem

Given two strings  $A$  and  $B$  with the same length and composed of uppercase English letters, ensure that each letter in  $A$  and  $B$  appears the same number of times.

You can exchange two adjacent characters in string  $A$  each time, find out how many times you need to exchange so that string  $A$  becomes string  $B$ .

### Input

The first line is a positive integer  $N(2 \leq N \leq 10^6)$ , which represents the length of the string.

The second and third lines each have a string of length  $N$ , which represent string  $A$  and string  $B$  and contain only uppercase letters.

### Output

A nonnegative integer that represents the minimum number of exchanges.

### Example

standard input	standard output
4 CABC CCAB	2