

Lost Encryptor

Jojo is on a secret mission. His task involves communicating to his upper echelon of the country. As their messages are crucial, the messages needs to be encrypted. But, when Jojo is a busy doing secret agent stuff, he accidentally lost his encryptor array. The encryptor is an array permutation of 1..N. Fortunately, he remembered word S and its encryption, denoted by T. Thus, he asks you to build him a program to recover his encryptor. The table below illustrates how Jojo's encryptor work.

word	b	i	n	u	s	О	j	=	n	j	u	i	s	О	b
encryptor	7	4	1	3	5	6	2		1	2	3	4	5	6	7

Table 1: Jojo's encryptor

Format Input

The first line will contain N which denotes the length of the word. The next line will contain S, the original word. The last line will be T, the encrypted S. T will be the permutation of S. It is guaranteed that S is a heterogram and will only contain lowercase letters. Heterogram is a word in which all of it letters are unique.

Format Output

The output of this problem will be the encryptor array of S which results in T. Each numbers are separated by a single space. Beware of trailing spaces.

Constraints

• 1 < *N* < 26

Sample Input (standard input)

7	
nuclear	
leracun	

Sample Output (standard output)

7 6 5 1 2 4 3

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Jojo sedang menjalankan misi rahasia. Pekerjaannya mengharuskannya berkomunikasi secara rahasia kepada atasan negara. Karena pesan-pesannya bersifat sensitif, ia membutuhkan setiap pesannya dienkripsi sebelum dikirimkan. Namun, ketika Jojo sedang sibuk melakukan hal-hal bak agen rahasia lainnya, ia secara tidak sengaja menghilangkan array enkriptornya. Enkriptornya berupa sebuah array permutasi 1..N. Untungnya, ia mengingat kata S dan hasil enkripsinya, T. Maka dari itu, ia meminta kamu untuk membuat program untuk memulihkan kembali enkriptor miliknya. Tabel dibawah mengilustrasikan bagaimana cara kerja enkriptor milik Jojo.

word	b	i	n	u	s	О	j	=	n	j	u	i	s	О	b	
encryptor	7	4	1	3	5	6	2		1	2	3	4	5	6	7	

Table 2: Enkriptor milik Jojo

Format Input

Baris pertama terdapat N, panjang katanya. Baris berikutnya mengandung S, kata awalnya. Baris terakhir mengandung T, S yang sudah dienkripsi. T adalah permutasi dari S. Dapat dipastikan bahwa S adalah heterogram dan hanya mengandung huruf kecil. Heterogram adalah sebuah kata dimana semua hurufnya unik.

Format Output

Keluarkan array enkriptor yang dapat memproses S menjadi T. Setiap bilangan dipisahkan oleh spasi. Hati-hati trailing space.

Constraints

• 1 < N < 26

Sample Input (standard input)

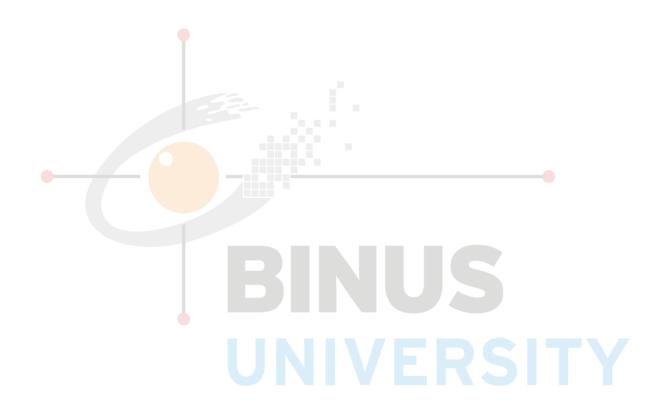
7		
nuclear		
leracun		

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Sample Output (standard output)

7 6 5 1 2 4 3



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