

Secret Esmsage

Jojo is on a secret mission. His needs to report directly to his upper echelon of the country. As their communication is crucial, the messages need to be secure. But, as Jojo is a busy man doing secret agent stuff, he needs you to make him a program to decrypt the given word S of length N using his decryptor array. The table below illustrates how Jojo's decryptor work.

encrypted word	е	\mathbf{S}	m	\mathbf{s}	a	g	е	=	m	е	S	S	a	g	е
decryptor	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 word that needs to be decrypted. The last line will be the decryptor, an array of permutation of 1..N.

Format Output

The output of this problem will be the decrypted version of S.

Constraints

• $1 \le N \le 100$

Sample Input (standard input)

```
11
3< gorpogla
11 10 9 8 7 6 5 4 3 2 1
```

Sample Output (standard output)

algoprog <3

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Jojo sedang menjalankan misi rahasia. Pekerjaannya dia mengharuskannya berkomunikasi kepada atasan negara. Karena pesan-pesannya bersifat sensitif, setiap pesan yang dienkripsi. Namun, Jojo adalah orang yang sibuk melakukan hal-hal bak agen rahasia lainnya, ia membutuhkan anda untuk membuat program baginya yang dapat mendekripsi sebuah kata S dengan panjang N menggunakan array dekriptor miliknya.

encrypted word	е	S	m	s	a	g	е	=	m	е	S	s	a	g	е
decryptor	7	4	1	3	5	6	2		1	2	3	4	5	6	7

Table 2: Jojo's encryptor

Format Input

Baris pertama terdapat N, panjang katanya. Baris berikutnya mengandung S, kata yang butuh dienkripsi. Baris terakhir merupakan array permutasi dari 1..N, yang merupakan dekriptor.

Format Output

Keluarkan S yang sudah dekripsi.

Constraints

• $1 \le N \le 100$

Sample Input (standard input)

```
11
3< gorpogla
11 10 9 8 7 6 5 4 3 2 1
```

Sample Output (standard output)

algoprog <3

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