WOSS Dual Olympiad 2021 J2/S1: Secret Formula

Time Limit: 2.0s   **Memory Limit:** 256M

You have heard rumours of a secret, super-strong compound with a formula that has been lost up until now. You have found a sheet describing a cipher used to encode the formula for this compound, along with a list of coded versions of potential formulas.

The cipher functions as follows: each number from $0 - 9$ is assigned a specific character that it represents. Whenever the number appears in a coded formula, it is to be replaced with the character that it represents.

Due to there being a large number of potential formulas, you wish to automate the decoding process by writing a program to take in the cipher along with a coded version of the formula and output the decoded version.

Input Specification

There will be three lines of input.

The first line will contain 10 space-separated characters (letters or numbers), each of which represents the decoded version of a number from $0 - 9$, in that order.

The second line will contain an integer N $(1 \leq N \leq 1000)$, which represents the number of numbers from $0 - 9$ that make up the coded version of the compound.

The third line will contain N space-separated integers from $0 - 9$, which is the coded version of the compound.

Output Specification

Output the decoded version of the input.

Sample Input

```
4 1 C H N Y X M 2 O
10
2 1 0 3 1 0 4 8 9 0
```

Sample Output

```
C14H14N2O4
```

Explanation of Sample Input/Output

```
2 - C
1 - 1
0 - 4
3 - H
1 - 1
0 - 4
4 - N
8 - 2
9 - O
0 - 4
```

Fun Fact: C14H14N2O4 is actually the chemical formula for Kevlar!