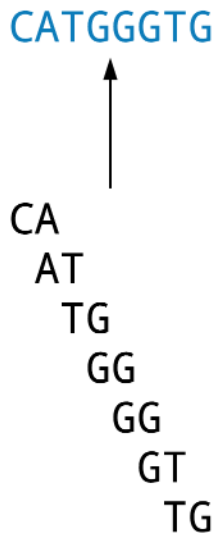
3B Reconstruct a String from its Genome Path

String Spelled by a Genome Path Problem
Find the string spelled by a genome path.

Input: A sequence of k-mers $Pattern_1, \ldots, Pattern_n$ such that the last $k-1$ symbols of $Pattern_i$ are equal to the first $k-1$ symbols of $Pattern_i + 1$ for i from 1 to $n-1$.
Output: A string *Text* of length $k+n-1$ where the i-th k-mer in *Text* is equal to $Pattern_i$ for all i from 1 to n.



Formatting

Input: A space-separated list of strings *Patterns*.
Output: A string *Text*.

Constraints

- The number of patterns in the string-set *Pattern* will be between 1 and 10^4.
- The length of any one pattern in *Pattern* will be between 1 and 10^2.

Test Cases

Case 1

Description: The sample dataset is not actually run on your code.

Input:
```
ACCGA CCGAA CGAAG GAAGC AAGCT
```

Output:
```
ACCGAAGCT
```

Case 2

Description: The sample dataset is not actually run on your code.

Input:
```
CTT TTT TTG
```

Output:
```
CTTTG
```

Case 3

Description: The sample dataset is not actually run on your code.

Input:
```
TT TG GT TT
```

Output:
```
TTGTT
```

Case 4

Description: The sample dataset is not actually run on your code.

Input:
```
AGCAGATC GCAGATCA CAGATCAT AGATCATC GATCATCG ATCATCGG
```

Output:
```
AGCAGATCATCGG
```

Case 5

Description: A larger dataset of the same size as that provided by the randomized autograder. Check input/output folders for this dataset.