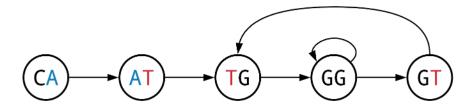
3C Construct the Overlap Graph of a Collection of k-mers

Overlap Graph Problem

Construct the overlap graph of a collection of k-mers.

Input: A collection *Patterns* of *k*-mers. **Output:** The overlap graph of *Patterns*.



Formatting

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

Output: An adjacency list representing the overlap graph of *Patterns*.

Constraints

- The number of patterns in the string-set *Patterns* will be between 1 and 10^3 .
- The length of any one pattern in *Patterns* will be between 1 and 10^2 .

Test Cases 🖸

Case 1

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

Input:

```
GGC TGCG C TGC GC TG GGC C GGC T
```

Output:

```
GGC : GGC C GGC T
C TGC: TGCG
GC TG: C TGC
GGC T: GC TG
```

Case 2

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

Input:

```
T C GG GT TG
```

Output:

```
T: TG
C: T
GG: GG GT
GT: TG
TG: GG GT
```

Case 3

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

Input:

TG TG

Output:

TG: TG

Case 4

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

Input:

```
C G T C GT T
```

Output:

```
: C G T
C: C
T: T
G: GT
C: C G T
GT: T
T: C G T
```

Case 5

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