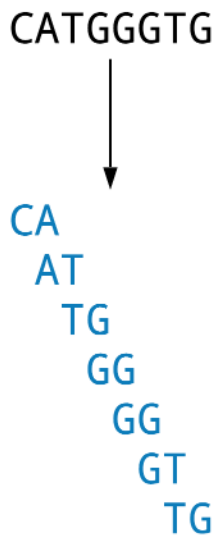
3A Generate the k-mer Composition of a String

String Composition Problem
Generate the k-mer composition of a string.

Input: An integer k and a string *Text*.
Output: The collection of k-mers COMPOSITION$_k$(*Text*).



Formatting

Input: A integer k followed by a string *Text*.
Output: A space-separated list of k-mer strings representing COMPOSITION$_k$(*Text*) (the k-mers can be provided in any order).

Constraints

- The value of k will be between 1 and 10^3.
- The length *Text* will be between 1 and 10^4.
- No pattern is a prefix of another pattern.

Test Cases

Case 1

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

Input:

```
5
CAATCCAAC
```

Output:

```
CAATC AATCC ATCCA TCCAA CCAAC
```

Case 2

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

Input:

```
3
TCGAA
```

Output:

```
TCG CGA GAA
```

Case 3

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

Input:

```
2
CCCCCCC
```

Output:

```
CC CC CC CC CC CC
```

Case 4

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

Input:

```
4
ACGT
```

Output:

```
ACGT
```

Case 5

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