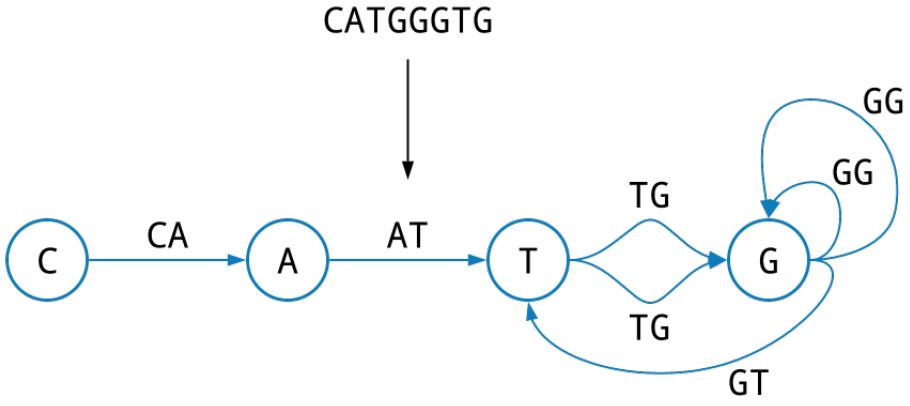
3D Construct the De Bruijn Graph of a String

De Bruijn Graph from a String Problem
Construct the de Bruijn graph of a string.

Input: An integer k and a string *Text*.
Output: The graph DEBRUIJN$_k$(*Text*).



Formatting

Input: A integer k followed by a string *Text*.
Output: DEBRUIJN$_k$(*Text*), in the form of an adjacency list.

Constraints

- The value of k will be between 1 and 10^2.
- The length of *Text* will be between 1 and 10^4.

Test Cases

Case 1

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

Input:

```
3
 CGTGT T
```

Output:

```
 C: CG
CG: GT
GT: TG T
TG: GT
T :  T
 T: T
```

Case 2

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

Input:

```
4
 GCCT
```

Output:

```
 GC: GCC
GCC: CCT
```

Case 3

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

Input:

```
3
CCTCCG
```

Output:

```
CC: CT CG
CT: TC
TC: CC
```

Case 4

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

Input:

```
4
GCTTCTTC
```

Output:

```
GCT: CTT
CTT: TTC TTC
TTC: TCT
TCT: CTT
```

Case 5

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

Input:

```
5
TTTTTTTTTT
```

Output:

```
TTTT: TTTT TTTT TTTT TTTT TTTT TTTT
```

Case 6

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