# **Problem Statement**

You are given two s: **N** and **K**. Lun the dog is interested in strings that satisfy the following conditions:

- The string has exactly **N** characters, each of which is either 'A', 'B' or 'C'.
- The string *s* has exactly **K** pairs (i, j)  $(0 \le i \le j \le N-1)$  such that  $s[i] \le s[j]$ .

If there exists a string that satisfies the conditions, find and return any such string. Otherwise, return an empty string.

## **Definition**

Class: ABC

Method: createString

Parameters: int, int

Returns: string

Method signature: string createString(int N, int K)

(be sure your method is public)

#### Limits

Time limit (s): 2.000

Memory limit (MB): 256

### **Constraints**

- N will be between 3 and 30, inclusive.
- K will be between 0 and N(N-1)/2, inclusive.

## **Examples**

