Problem 2194: Cells in a Range on an Excel Sheet

Problem Information

Difficulty: Easy
Acceptance Rate: 84.12%
Paid Only: No
Tags: String

Problem Description

A cell `(r, c)` of an excel sheet is represented as a string `"<col><row>"` where:

* `<col>` denotes the column number `c` of the cell. It is represented by **alphabetical letters**. * For example, the `1st` column is denoted by `'A'`, the `2nd` by `'B'`, the `3rd` by `'C'`, and so on. * `<row>` is the row number `r` of the cell. The `rth` row is represented by the **integer** `r`.

You are given a string `s` in the format `"<col1><row1>:<col2><row2>"`, where `<col1>` represents the column `c1`, `<row1>` represents the row `r1`, `<col2>` represents the column `c2`, and `<row2>` represents the row `r2`, such that `r1 <= r2` and `c1 <= c2`.

Return _the**list of cells**_ `(x, y)` _such that_ `r1 <= x <= r2` _and_ `c1 <= y <= c2`. The cells should be represented as **strings** in the format mentioned above and be sorted in **non-decreasing** order first by columns and then by rows.

Example 1:

Input: s = "K1:L2" **Output:** ["K1","K2","L1","L2"] **Explanation:** The above diagram shows the cells which should be present in the list. The red arrows denote the order in which the cells should be presented.

Example 2:

Input: s = "A1:F1" **Output:** ["A1","B1","C1","D1","E1","F1"] **Explanation:** The above diagram shows the cells which should be present in the list. The red arrow denotes the order in which the cells should be presented.

Constraints:

* `s.length == 5` * `'A' <= s[0] <= s[3] <= 'Z'` * `'1' <= s[1] <= s[4] <= '9'` * `s` consists of uppercase English letters, digits and `':'`.

Code Snippets

C++:

```
class Solution {
public:
vector<string> cellsInRange(string s) {


}
};
```

Java:

```
class Solution {
public List<String> cellsInRange(String s) {


}
}
```

Python3:

```
class Solution:
def cellsInRange(self, s: str) -> List[str]:
```