93. Restore IP Addresses

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Description
                      Discuss

▲ Solution

     ⊅ Pick One
    Given a string containing only digits, restore it by returning all possible valid IP address combinations.
    Example:
     Input: "25525511135"
     Output: ["255.255.11.135", "255.255.111.35"]
public class L93 {
    public List<String> restoreIpAddresses(String s) {
        List<String> result = new ArrayList<String>();
         dfs(result, s, "", 0, "", 0);
        return result;
     }
     * 参数说明
     * temp表示当前得到的字符串
      * curSum是前一个.到目前字符的全部
     * times是当前为止字段的数量,ip地址只能为4个字段。
    private void dfs(List<String> result, String s, String temp, int curIndex, String curSum, int times) {
        if(times < 4 && times > 0) {
            temp = temp + curSum + ".";
             curSum = "";
         }else if (times == 4 && curIndex == s.length()) { //得到4个字段后,如果curIndex不小于s.lenght(),那么ig合法
            result.add(temp + curSum);
         for(int i = curIndex; i < s.length() && times < 4; i++) {</pre>
             curSum = curSum + s.charAt(i);
             if(curSum.length() > 1 && curSum.startsWith("0") || Integer.parseInt(curSum) > 255) //该字段ig不合法
             dfs(result, s, temp, i + 1, curSum, times + 1);
        }
    }
```