131. Palindrome Partitioning

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• BackTracking

Description

Given a string s, partition s such that every substring of the partition is a palindrome.

Return all possible palindrome partitioning of s.

```
For example, given s = "aab", Return
```

```
[
    ["aa","b"],
    ["a","a","b"]
]
```

1. Thought line

2. BackTracking

```
class Solution {
   bool isPalindrome(string s){
      if (s.empty()) return false;
          if (s[a]!=s[b]) return false;
   void backtrackingPartition(string s, int st, vector<vector<string>>\delta result, vector<string> tempRes){
       if (st>s.size()-1){
           result.push_back(tempRes);
       string tempStr = "";
       for (int cutSpot = st; cutSpot<=s.size()-1; ++cutSpot){</pre>
           tempStr +=s[cutSpot];
            if (isPalindrome(tempStr)){
                tempRes.push_back(tempStr);
                backtrackingPartition(s, cutSpot+1, result, tempRes);
                tempRes.pop_back();
   vector<vector<string>>> partition(string s) {
       vector<vector<string>>> result(0);
       vector<string> temp(0);
```

```
if (s.empty()) return result;
    backtrackingPartition(s, 0, result, temp);
    return result;
    }
};
```