

Q1 int countPalindromeCut (string s) {

(a) int n = s.size(); maxlen = 0;

vector<vector<boolean>> dp (n, vector<boolean> (n, false));

for (int i=1; i<n; i++) dp[i][i] = true;

for (int i=n-2; i>=0; i--){

for (int j=i+1; j<n; j++) {

len = j - i + 1;

if (s[i] == s[j]) {

if (length <= 1 {

dp[i][j] = true;

} else {

dp[i][j] = dp[i+1][j-1];

}

}

}

}

$O(n^2)$

Ps. 有 $O(n)$ 解法, 估计不要求

vector<int> cut (n, 0)

for (int j=1; j<n; j++) {

if (dp[0][j]) {

cut[j] = 0;

} else {

cut[j] = cut[j-1] + 1;

for (int i=1; i<j; i++) {

if (dp[i][j]) {

cut[j] = min(cut[j], cut[i-1] + 1)

}

}

}

}

return cut[n-1];

}

REF: leetcode.cn

132 题

(b)

```
int lenOfLIS (string s) {  
    int [] dp = new int [s.size()];  
    for (i=0 ; i < s.size() ; i++) dp[i] = 1 ;  
    for (j=0 ; j < s.size() ; j++) {  
        for (i=0 ; i < j ; i++) {  
            if ( s[i] < s[j] )  
                dp[i] = max(dp[i]+1 , dp[j]);  
        }  
    }  
  
    int res = 0;  
    for (i=0 ; i < s.size() ; i++)  
        res = max(res , dp[i]);  
  
    return res  
}
```

$O(n^2)$

PS. 有 $O(n \log n)$ 的 = 分搜索法
但不容易想到

REF: leetcode.cn 第300题