

354. Russian Doll Envelopes

题目描述: <https://leetcode.com/problems/russian-doll-envelopes/>

把信封套起来最多套几个，外面的必须长款都大于里面的才能套起来。

解题思路:

sort一下然后用求最长递增子序列的dp

代码:

```
class Solution {
public:
    int maxEnvelopes(vector<pair<int, int>>& envelopes) {
        int n = envelopes.size(), res = 1;
        if(n <= 1) return n;
        sort(envelopes.begin(), envelopes.end(), [](pair<int, int> a, pair<int, int> b){
            if(a.first < b.first) return true;
            if(a.first == b.first) return a.second < b.second;
            return false;
        });
        vector<int> f(n, 1);
        for(int i = 1; i < n; i++) {
            for(int k = i-1; k >= 0; k--) {
                if(envelopes[i].first > envelopes[k].first && envelopes[i].second > envelopes[k].second) {
                    f[i] = max(f[i], f[k]+1);
                }
            }
            res = max(res, f[i]);
        }
        return res;
    }
};
```