

动态规划：983. 最低票价

```
1 class Solution {
2 private:
3     vector<int> days, costs;
4     vector<int> memo;
5     int durations[3] = {1, 7, 30};
6
7 public:
8     int mincostTickets(vector<int>& days, vector<int>& costs) {
9         this->days = days;
10        this->costs = costs;
11        memo.assign(days.size(), -1);
12        return dp(0);
13    }
14
15    int dp(int i) {
16        if (i >= days.size()) {
17            return 0;
18        }
19        if (memo[i] != -1) {
20            return memo[i];
21        }
22        memo[i] = INT_MAX;
23        int j = i;
24        for (int k = 0; k < 3; ++k) {
25            while (j < days.size() && days[j] < days[i] + durations[k]) {
26                ++j;
27            }
28            memo[i] = min(memo[i], dp(j) + costs[k]);
29        }
30        return memo[i];
31    }
32 };
33
```