

## 322. Coin Change

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题目描述: <https://leetcode.com/problems/coin-change/>

给定硬币的种类，给定要凑成的整数，求最少的硬币个数。

解题思路:

简单的背包问题。

代码:

```
class Solution {
public:
    int coinChange(vector<int>& coins, int amount) {
        if(amount == 0) {
            return 0;
        }
        vector<int> f(amount+1, INT_MAX-1);
        for(auto item: coins) {
            if(item <= amount)
                f[item] = 1;
        }
        for(int i = 1; i <= amount; i++) {
            for(auto item: coins) {
                if(i - item >= 0)
                    f[i] = min(f[i], 1+f[i-item]);
            }
        }
        return f[amount] == (INT_MAX - 1) ? -1 : f[amount];
    }
};
```