# Maximum Subarray

Find the contiguous subarray within an array (containing at least one number) which has the largest sum.

For example, given the array [−2,1,−3,4,−1,2,1,−5,4],  
the contiguous subarray [4,−1,2,1] has the largest sum = 6.

[click to show more practice.](https://leetcode.com/problems/maximum-subarray/)

**More practice:**

If you have figured out the O(*n*) solution, try coding another solution using the divide and conquer approach, which is more subtle.

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# House Robber

You are a professional robber planning to rob houses along a street. Each house has a certain amount of money stashed, the only constraint stopping you from robbing each of them is that adjacent houses have security system connected and **it will automatically contact the police if two adjacent houses were broken into on the same night**.

Given a list of non-negative integers representing the amount of money of each house, determine the maximum amount of money you can rob tonight **without alerting the police**.

# 322. Coin Change

You are given coins of different denominations and a total amount of money *amount*. Write a function to compute the fewest number of coins that you need to make up that amount. If that amount of money cannot be made up by any combination of the coins, return -1.

**Example 1:**  
coins = [1, 2, 5], amount = 11  
return 3 (11 = 5 + 5 + 1)

**Example 2:**  
coins = [2], amount = 3  
return -1.

**Note**:  
You may assume that you have an infinite number of each kind of coin.

# 背包问题九讲

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