53. Maximum Subarray

Easy.
Array, Divide and Conquer, Dynamic Programming.

Given an integer array nums, find the contiguous subarray (containing at least one number) which has the largest sum and return its sum.

Example:

```
Input: [-2,1,-3,4,-1,2,1,-5,4],
Output: 6
Explanation: [4,-1,2,1] has the largest sum = 6.
```

Follow up:

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

解法一

暴力搜索。可以用双循环进行不断的判断，当前数字是否应该相加。
复杂度O(n^2)

Java

```
class Solution {
    public int maxSubArray(int[] nums) {
        int len = nums.length;
        if(len==1) return nums[0];
        int max = Integer.MIN_VALUE;
        for(int i=0; i<len;i++){
            int tmp = nums[i];
            max=Math.max(tmp,max);
            for(int j=i+1;j<len;j++){
                tmp+=nums[j];
                max=Math.max(tmp,max);
```

```
            }
        }
        return max;
    }
}
```