213. House Robber II



You are a professional robber planning to rob houses along a street. Each house has a certain amount of money stashed. All houses at this place are arranged in a circle. That means the first house is the neighbor of the last one. Meanwhile, 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.

Example 1:

Example 2:

}

```
public class L213 {
public int rob(int[] nums) {
   if(nums == null || nums.length == 0) {
       return 0;
   if(nums.length == 1)
       return nums[0];
   }
    * 因为这里头尾相连,所以我们考虑将nums分为两个,第一个是nums[0] ~ nums[nums.length - 2],
    * 第二个是nums[1]~nums[nums.length - 1]
   return Math.max(robDP(nums, 0, nums.length - 2), robDP(nums, 1, nums.length - 1));
 }
public int robDP(int [] nums, int first, int last) {
    int n = last - first + 1;
    if(n == 0)
        return 0;
    if(n == 1)
        return nums[first];
    int [] dp = new int [n];
    dp[0] = nums[first];
    dp[1] = Math.max(nums[first], nums[first + 1]);
    for(int i = 2; i < n; i ++) {</pre>
        dp[i] = Math.max(dp[i - 2] + nums[first + i], dp[i - 1]);
    return dp[n - 1];
}
```