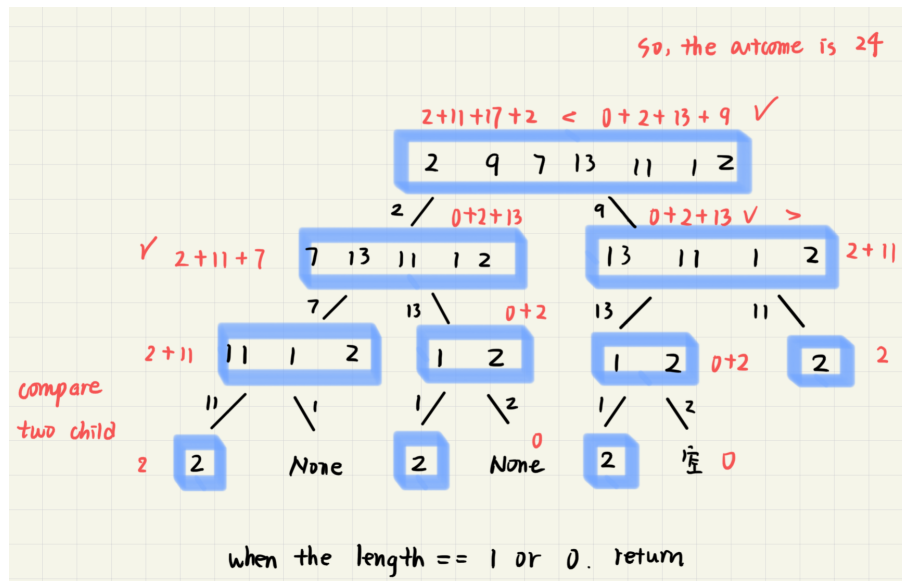


## 198. House Robber

My solution:



```

1 class solution:
2     def rob(self, nums: List[int]) -> int:
3         target = len(nums) // 2
4         return self.compare(nums, target)
5
6     def compare(self, nums, target, memo):
7         if len(nums) == 1:
8             return nums[0]
9         if len(nums) == 0:
10            return 0
11        res = 0
12        for i in range(target):
13            left = nums[0] + self.compare(nums[2:], target)
14            right = nums[1] + self.compare(nums[3:], target)
15            res = max(left, right)
16
17        return res
18

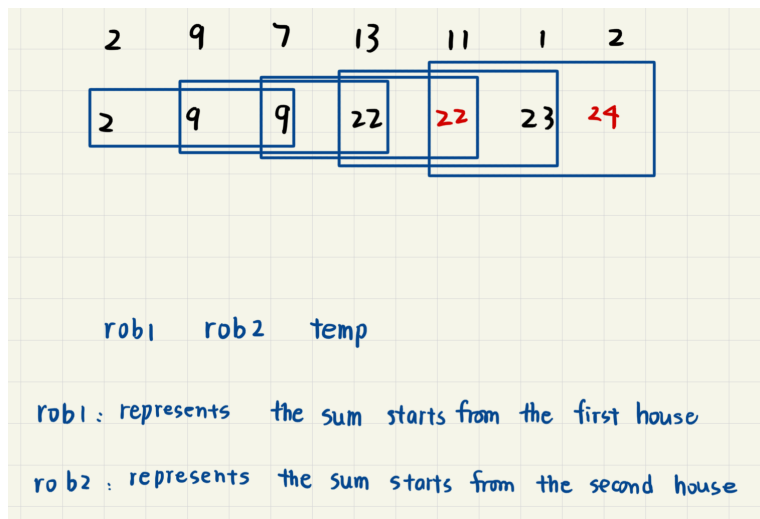
```

Time complexity is out of range. **Hashtable can't store list, so my memorization failed. sigh...**

**Standard Solution:**

<https://youtu.be/73r3KWiEvyk>

He uses iteration to solve this out.



temp represents the max among uneven pick and even pick.

```
1 class Solution:
2     def rob(self, nums: List[int]) -> int:
3         rob1, rob2 = 0, 0
4         for n in nums:
5             temp = max(n + rob1, rob2)
6             rob1 = rob2
7             rob2 = temp
8         return rob2
```