House Robbert

The:

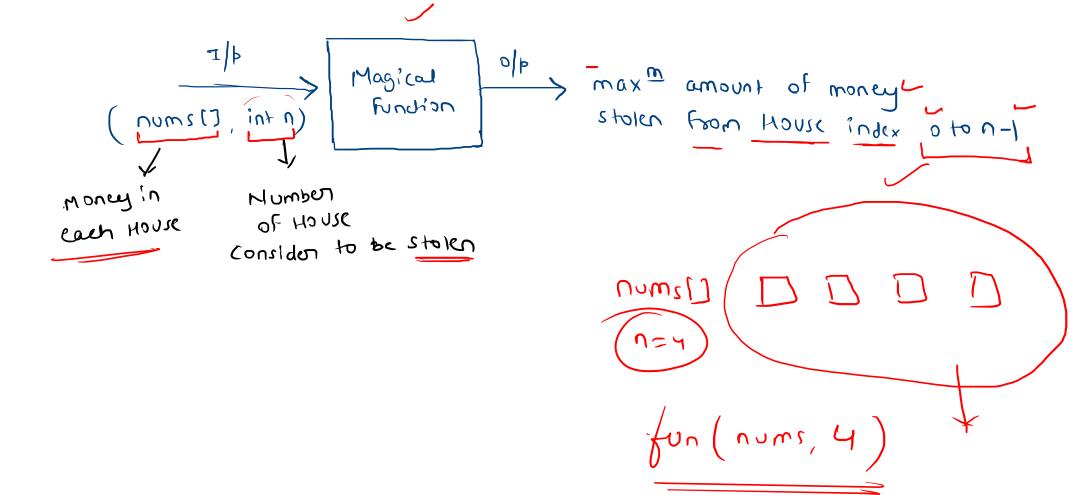
nums = 10, 2 3 1]

olp: 4

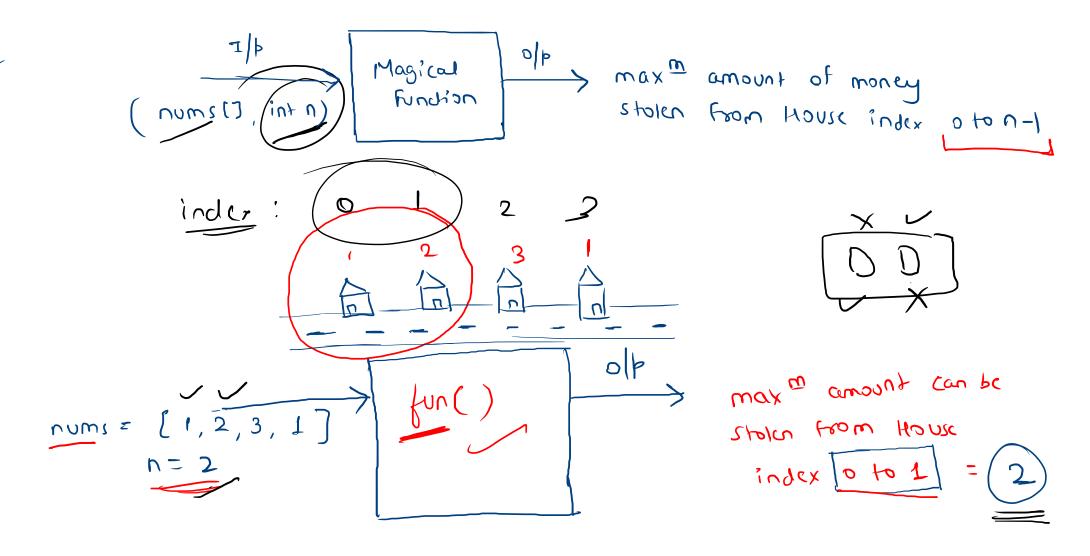
(12 3 1)

(12 3 1)

Remasive Solution



Remasive



Rewasive Solution

nums (7, int n) Magical olp max m amount of money stolen from House index o to n-1

maximum < fun (nums, n)

Amount

The nums (J= 1,2,3,1)

fun (nums, y)

maximum ant.

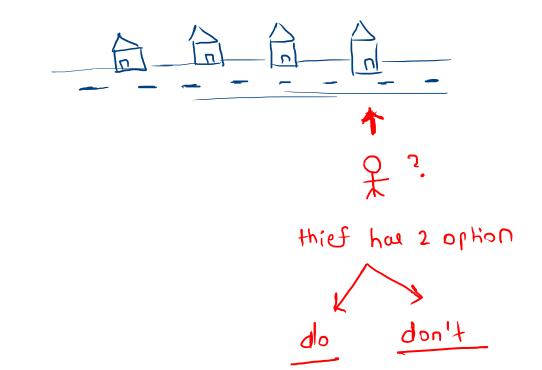
Reunsive

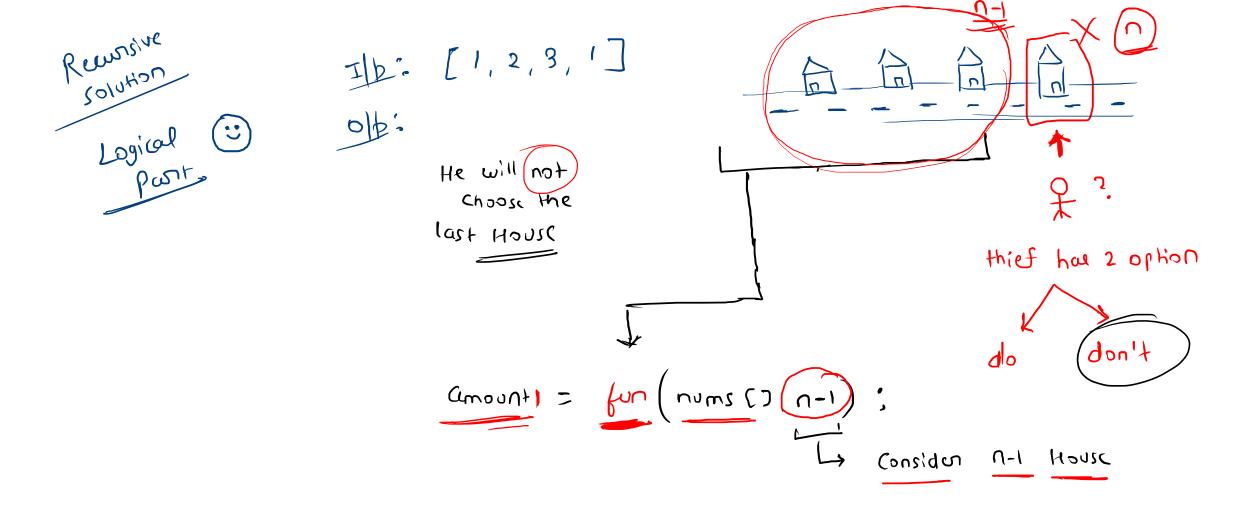
Solution

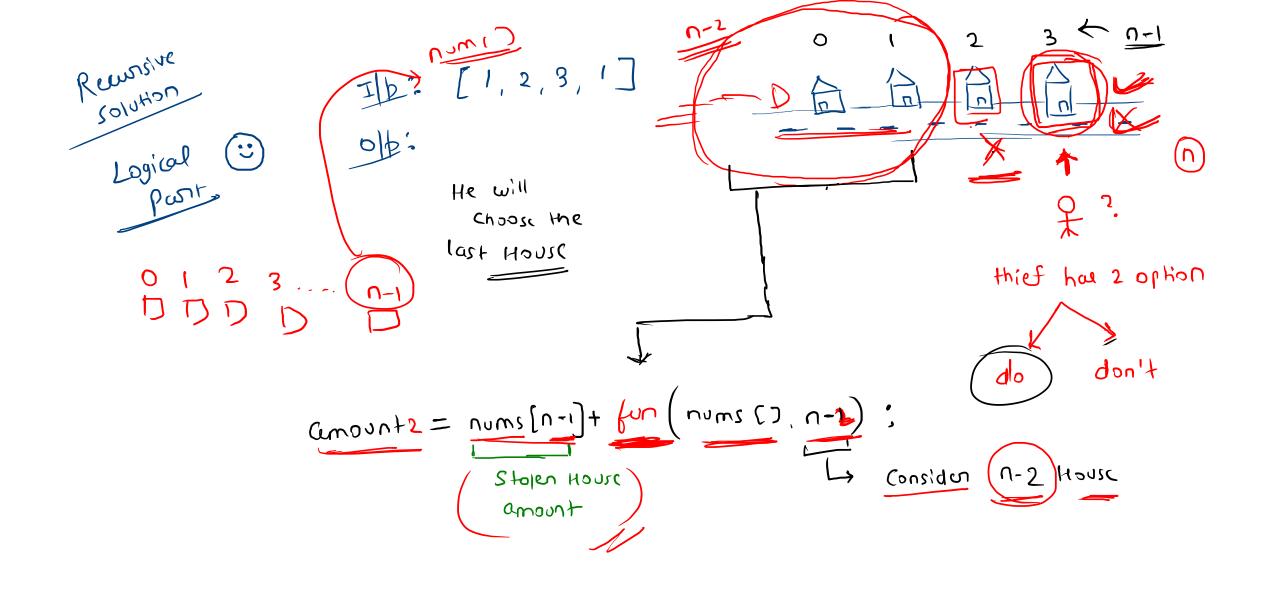
The [1, 2, 3, 1]

Part

Part







Rounsive Ib: [1,2,3,1] So, they will Chouse the maximum amount out of His 2 choices thief has 2 option comount = max (fun (nume, n-1), nums[n-1] + fun (nums, n-2));

Reunsive

```
int fun ( nums [], int n)

/

// Basi Condition

**Suturn max ( fun ( nums, n-1),

nums [n-1] + fun ( nums, n-2));
```

Buse

smallest valle Input -> check output

int fun (nums[], (int n)

 $n = 0, 1, 2, 3 \dots$

(amount = 0

Remaria

```
int fun (nums[], int n)

* if (n <= 0) roborn 0; ] Base Condition

nums[n-1] + fun (nums, n-2));

Logic

nums[n-1] + fun (nums, n-2));
```

fun (nom s, (fun (numr, fun (num, n-2) fun (num, n-3) fun (num, n-3,) fun (num, n-3,) func Recommend

Memoization

•

Remarive

```
int fun ( nums[], int n)

if ( n <= 0) return o;

if ( ab[n] != -1) return dp[n];

return dp[n] = max ( fun ( nums, n-1),

nums[n-1] + fun ( nums, n-2));
```