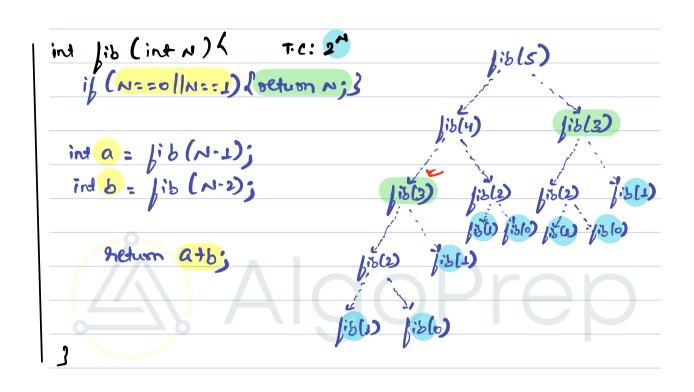
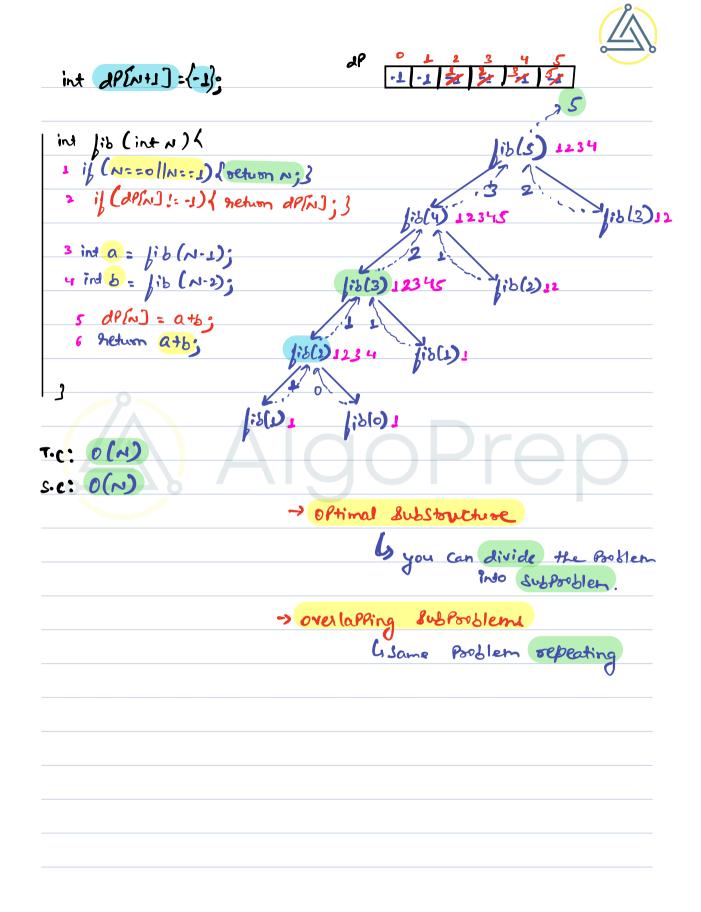


Today's agenda  Li Dynamic Poogramming Intoo  Li when to use DP  Li stell for DP  Li H N Stairs  Li Sque
AlgoPrep
> DRY -> Don't Releast yourself



Q)	Nth	bibonacci L	number				_					
	•	D	0 1	2	3	4	3	6	7	8	3	
		1			2	2		R	12	21	24	
					1	3	2	O	13	23	37	







/1 quick questions
900
munbai delhi
<b>b</b> 3*2 : <b>b</b>
3+2=b
mumbai delhi > 6+9=15
The bands of the second of the
- burgutos C.
mumbai delhi => 6+9 = 15
//// AlaaDran
MAN AIGORICO



## 11 N Stairs

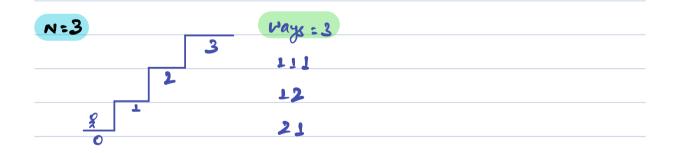
6 - NH stair.

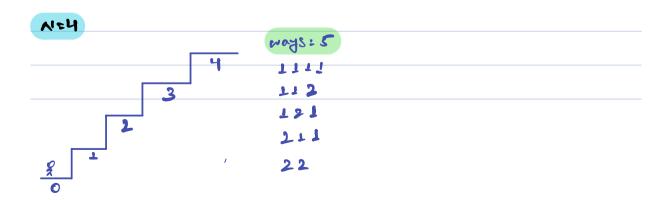
Note: you can take steps of length 1 or 2.

### N:1

S - T

# N=2 2 2 11 2







## int ap[n+1] = (-1);

```
ind Stairs (int w) \\

1 if (N==1||N=:2) (betwoon n; \)

2 if (dPln]:=-1) \{ netwoon dPln]; \}

3 ind a = Stairs (N-1);

4 ind b = Stairs (N-2);

5 dPln] = a+b;

6 hetwoon a+b;
```

### Break +14 9:25 PM



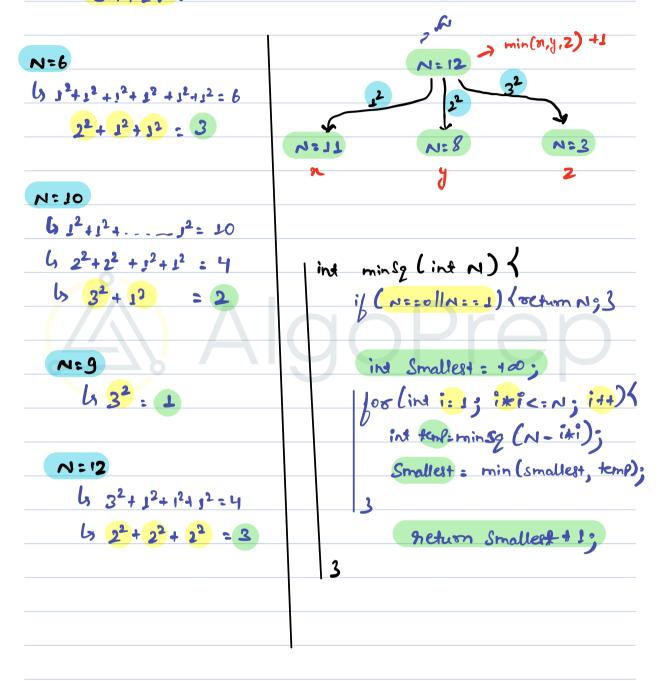
Opplinal substance
11 Steps for DP overlashing subtroblem
(i) de state: What are we solving spilli)
U de state. What are we solving
(n) recussence relation
Greation bet booklem and subproblem.
(iii) de table
at table by where we store the onliner.

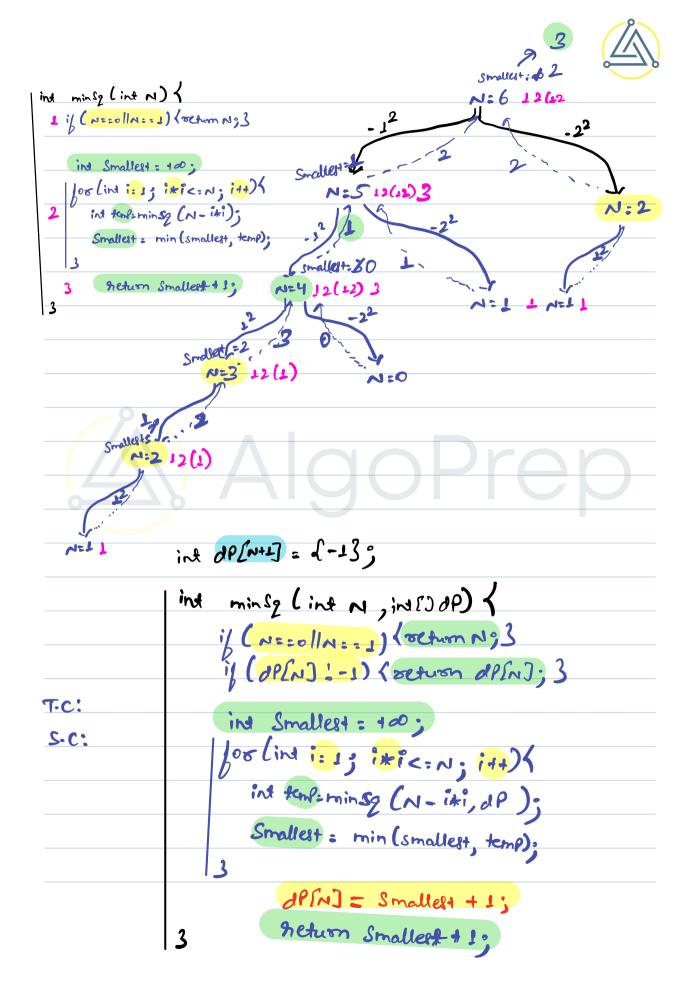


1/N Stairs
Li Given N, how many ways we can go from
0 - NH Stair.
Note: you can take steps of length 1 or 2 ms
No. J Lagrand
1 wars 2 - 1 [2 jung ] N
٨٠-٤٠٠ (١٥٥ مرا ١٥٥ مرا
2 chyp
// Algo Droid
WAY AIGOPIED
Crolden hule of securtion?
h no of Calls : No. of Choices.



D) Find minimum number of Perfect Equarel Required to Sum = N.







ind Smallest = 100;  Jos Lind i: 13 it ic: N; itt)  ind tend: min Sg (N = iti);  Smallest = min (smallest, temp);  3	int Smallest: +0;  int temps: minsq(N-12);  Smallest: math.min (smallest, temps);  int temps: minsq(N-32);  Smallest: math.min (smallest, temps);  int temps: minsq(N-32);  Smallest: math.min (smallest, temps);  setum smallest t 1;